

Microvita – The Cosmic Evolutionary Intelligence Agents

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Abstract

A new, consciousness-first scientific paradigm, incorporating Supreme Consciousness, Cosmic Mind and subtle sub-atomic cosmic intelligence agents called microvita, can replace the present materialist paradigm. The new paradigm can provide new insights into the origin and nature of living beings and the observed upward evolutionary trend of life in the universe. In the new paradigm, a Cosmic Cycle of Creation starts from unexpressed infinite Supreme Consciousness and creates a Cosmic Mind and within it the universe containing matter, individual living beings, and human beings with developed minds. Each human mind ultimately completes its Cosmic Cycle by finally merging with unexpressed infinite Supreme Consciousness to spiritually fulfill the goal of human life, according to spiritual guru Prabhat Ranjan Sarkar. According to P. R. Sarkar, life is the “ceaseless fight to restore an unstable equilibrium.” Prominent in different phases of the Cosmic Cycle are the actions of microvita—subtle sub-atomic living beings emanated from the Cosmic Mind, that act as evolutionary cosmic intelligence agents. They move the Cosmic Cycle forward at every step, starting within the formation of fundamental physical particles from microvita. Microvita produce the anti-entropic or upward evolutionary trend of the universe that is currently unexplained. This upward evolutionary trend continues inexorably despite the current laws of physics, especially the second law of thermodynamics, which predicts that the universe as a whole is continually moving from a lower to higher state of entropy or disorder. Microvita participate in upward evolutionary processes from the formation of subatomic particles and atoms, to producing complex biochemical molecules life and minds, to forming new species including human beings, causing and curing diseases, to helping human civilization to advance, and to composing Divine Grace that helps human beings complete their spiritual journey. Scientific research on microvita is urgently needed at all levels, to the discover the natural laws that describe all these actions of microvita, so that many urgent problems facing humanity today can be solved in ways that are beneficial to all.

Keywords: microvita, life, evolution

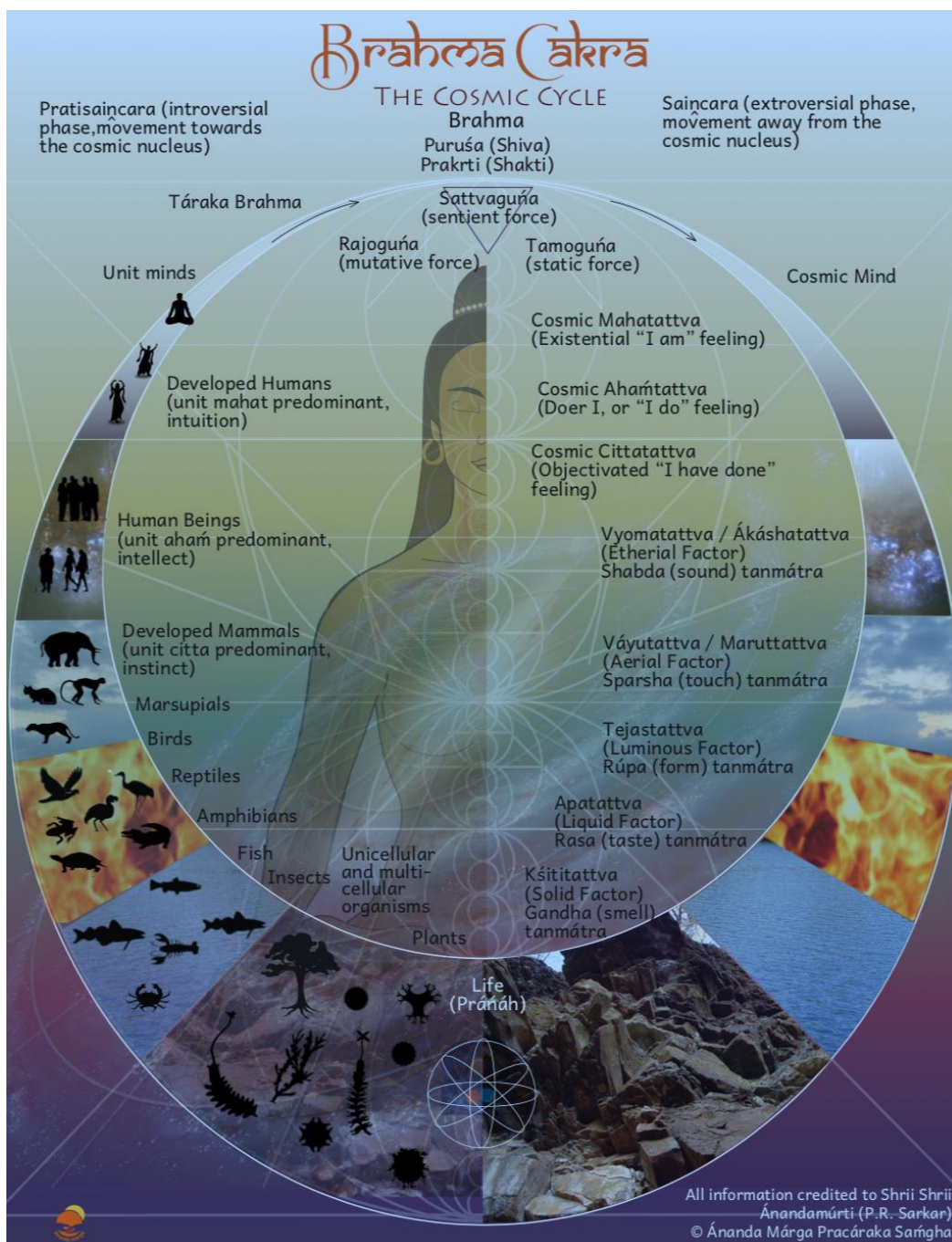
Introduction

It has long been observed that in the universe, individual objects appearing in the evolution of the universe generally combine and grow more complex over time. Living beings emerge and then show an evolutionary trend towards greater physiological complexity, with the emergence of minds that also grow more psychologically complex over time. Although materialistic science has made large strides in describing and predicting many aspects of the physical universe, including some aspects of biological evolution with the neo-Darwinist theory of evolution and far-from-equilibrium thermodynamics analysis, the upward trend of evolutionary development in the universe has for the most part remained a mystery, since the laws of physics, especially the second law of thermodynamics, generally predict a downward trend of the universe towards greater and greater physical disorder and a final thermal death, unless new physical laws are discovered.

In recent years there has been a growing awareness of the role of information in the evolving universe. Information describes the codes used to form, reproduce, and evolve biological structures in the universe. The mechanism for the natural origin or evolution of the codes that occur in the DNA and

RNA molecules that underlie genetic expression in biology, is still unknown, although biochemists are able to create DNA and RNA strands in laboratories, guided by their knowledge and methods of biochemistry. Now a new approach to this long-standing mystery of the natural origin of DNA and RNA has arrived—microvita. These are subtle sub-atomic living entities described by Prabhat Ranjan Sarkar. (1) The actions of microvita move evolution upward in the universe, which is guided along a Cosmic Cycle by the cosmic intelligence of a Cosmic Mind. The universe is evolving, one human being at a time, to the original source it came from – unqualified infinite Supreme Consciousness. To see how microvita fit into the Cosmic Cycle, let's start at the beginning.

1. THE COSMIC CYCLE OF CREATION



Life Evolves from Supreme Consciousness, Cosmic Mind and Microvita

The present article supports the need for a major and revolutionary new scientific paradigm shift. The proposed new paradigm is explicitly spiritually-based, and postulates 1) at the first level, an infinite transcendental non-expressed Supreme Consciousness, 2) at the second level, a Cosmic Mind (derived from an infinite expressed Supreme Consciousness) in which the universe is evolved as a complex cosmic thought-wave, and 3) at the third level, a Cosmic-Mind-emanated flow of sub-atomic living cosmic intelligence agents called microvita. These mysterious evolutionary agents, carrying cosmic codes of life, evolve fundamental physical particles, atoms, biological molecules, protozoa, individual minds, developed plant and animal species, and highly developed human bodies and minds throughout the universe. These microvita, proposed by Prabhat Ranjan Sarkar (1) in 1986, are the long-sought evolutionary force that acts throughout the universe to produce our upward-evolutionary, mind-evolving universe. The activities of these microvita are governed by a cosmic law, formulated by expressed Supreme Consciousness, acting through its Cosmic Mind. Microvita are emanated by the Cosmic Mind into its internally-evolving universe. The role of microvita at different stages of the Cosmic Cycle, illustrate with examples from P. R. Sarkar's discourses, will be discussed after an overview of the Cosmic Cycle.

The Cosmic Cycle Starts with Unqualified Infinite Supreme Consciousness

Prabhat Ranjan Sarkar's (2) philosophy of the Cosmic Cycle starts by postulating an infinite Supreme Consciousness, which is non-qualified and expressionless but has infinite creative power in potentiality.

Then Comes Qualified Infinite Supreme Consciousness

When infinite non-qualified Supreme Consciousness partly expresses itself in the state of infinite qualified Supreme Consciousness, it gives itself attributes using its infinite creative power.

The Infinite Cosmic Mind is Created

The more attributes infinite expressed Supreme Consciousness gives itself, the more its expressions move from subtler expressions (more mind-like) to cruder expressions (more matter-like). All these expressions or qualifications of the Supreme Consciousness occur within the Cosmic Mind, including the crudest solid physical matter. The flow of creation and expression of attributes, from unexpressed Supreme Consciousness to the most highly-crudified expressed Supreme Consciousness, is called the extroversial phase of the Cosmic Cycle (from One to many.)

Matter is Evolved

As the Cosmic Mind applies more and more various qualities to itself (due to the action of the infinite creative power of the expressed Supreme Consciousness), different wavelengths of material waves are created that become shorter and shorter. These material waves are still within the Cosmic Mind and so are actually mental waves.) The subtlest material waves are called etheric waves. The next are aerial waves, then luminous waves, then liquid waves, and finally solid waves, with many gradations within these five general groups of material waves. The etherial stage is the vacuum of space. Subatomic particles and then atoms and simple molecules are formed at the aerial stage. As the physical waves become shorter and shorter, the intermolecular and interatomic spaces between these molecules and atoms go on decreasing. Stars and other luminous celestial bodies are formed when the wavelength range of matter waves reaches the luminous stage. Some stars explode (supernovas)

creating heavier atoms, which along with lighter atoms form other stars. Planets of molten materials are derived from these later stars during the liquid stage of material evolution, and finally some portions of these planets solidify at the solid stage of material evolution.

Protozoic Living Beings Are Evolved

Individual protozoic life forms (with protozoic bodies and minds) are evolved from highly-crudified Consciousness at the stage of the crudest expression of qualified Consciousness, which is solid matter. If the physical environment is congenial for the formation of living beings (such as on the surface of a planet or at the bottom of the oceans), undeveloped minds are evolved from some physical matter. Supreme Consciousness becomes less crudified here due a decreasing or withdrawing of cosmic creative power from some physical matter. Some of this physical matter is transformed into a more subtle expression of Consciousness to become a primordial individual mind that associates with a small physical body. This simple protozoic mind becomes a coordinating mental nucleus within a small physical structure composed of matter consisting of the five types of material waves in a balanced proportion. This mind-centered physical structure is held together by a mentally-coordinated set of life energies, producing living protozoa. A protozoan is a form of qualified Supreme Consciousness that expresses partly as a physical body and partly as an individual mind. Protozoa, like other evolved entities, exist within the Cosmic Mind. The evolution of primordial individual minds from matter to form the simplest protozoa, marks the beginning stage of the introversial phase (many to One) of the Cosmic Cycle.

Metazoic Living Beings Are Evolved

Over time and many lifetimes (where protozoic minds successively move from one body to another), protozoa evolve into more highly-structured metazoic living beings with their inter-coordinated minds and bodies. Each living being has a soul or self, which is the reflection or close association of infinite Supreme Consciousness with each evolving individual mind. The expression of each soul depends on the quality and clarity of the reflection of the Supreme Consciousness on each individual mind. Due to the continuing efforts of groups of living beings, and with the support of the Supreme Consciousness, the minds of living beings, and their bodies, evolve into greater subtlety, creating a growing variety of plants and animals over billions of years.

Human Beings are Evolved

Humanoid beings with more highly evolved minds are born and continue evolving. They form human groups that also evolve to the current species of Homo sapiens sapiens. Human beings have free will (freedom to make conscious choices) given to them by Supreme Consciousness as they increase their powers of self-control. Human beings become freer to control their continued mental and spiritual evolution.

Different human groups form, which play an important role in the protection and development of human beings physically, mentally and spiritually. Health is very important to human evolutionary progress. Healers in these groups have a large role in maintaining both physical and mental health in their tribes and communities.

Return to Infinite Unexpressed Supreme Consciousness

As a result of being inspired to performing spiritual practices like meditation, developed human beings may permanently merge their I-feeling with the I-feeling of the Cosmic Mind. This state is called spiritual liberation (mukti). One may also pass through this stage to permanently merge his or her mind into non-qualified infinite Supreme Consciousness, from which each human being originally evolved. This final spiritual achievement is called salvation (moksha), and is the final spiritual

destination for all human beings, according to Prabhat Ranjan Sarkar. Achievement of salvation completes the Cosmic Cycle for an individual human being. The Supreme Consciousness, out of its infinite love, continues evolving new living beings that move through the Cosmic Cycle, which is grounded in infinite love.

Why Does the Universe Evolve?

It is a well-known fact, known by careful observations and scientific experiments and inferences, that fundamental particles, simple and complex molecules, living beings, complex animal and plant species, and human beings with highly developed physical bodies and minds, exist now and also have existed in the past on the Earth. An interesting question is, why? A more precise question is, how can we account for this variety in the complexity of matter and living beings in the world or the universe, and in particular, how and why does this complexity change over time? Is the observed complexity of matter and mind in particular objects or people due to chance combinations of simpler objects or materials? The emergence of complex structures like galaxies, stars and living beings in the universe would seem to defy the general trend of physical objects in a closed room or container to become more disorganized over time, as described and predicted by the second law of thermodynamics in physics in a closed system. Also, the amount of order or disorder in a closed room or container (a closed system) over time will depend on whether there are people, animals, plants or other living beings in the room or container in addition to non-living objects.

Physicists explain that the second law of thermodynamics is not violated during the formation or evolution of complex bio-molecules, living beings and highly developed species including human beings. Although some things or living beings may become more ordered and complex, the way entropy is calculated gives the result that the total amount of entropy (or disorder) in a closed system of objects will always increase, even if some of the materials or living beings contained in the closed system become more ordered. This is because the calculated decreases in entropy in complex structures that may form in a closed room or system is more than compensated by the calculated increase in entropy in the surrounding materials, as is required by the second law of thermodynamics.

Yet there remain huge gaps in scientific theories and explanations for the origin of matter, life, minds and consciousness in the universe. Also, the universe is not known for certain to be a closed system, like a box that allows nothing to come in or out. Physicists don't know if our universe is open or closed, i.e. if there is anything that can ever enter or leave our universe. Although there are many good scientific theories, scientific knowledge about our universe is definitely incomplete. The scientific jury is still out for the full explanation for the "upward" tendency of the universe to produce stable stars and galaxies, life, developed animals and plants, and highly intelligent and conscious human beings. The universe might just as easily, or perhaps more easily, have produced increasing chaos and disorder throughout, instead of the evolutionary drama that we actually observe. But then, such a universe would not have produced us, either.

2. CONSCIOUSNESS

Consciousness comes first in the proposed new scientific paradigm—consciousness is primary and primordial. Consciousness is not derivable from anything else, such as forces, matter, energy, life, organization, mind or any combination of these or other things. Consciousness itself cannot be scientifically proved by physical or even mental experiments. It can only be experienced.

In P. R. Sarkar's spiritual philosophy, which updates and may supersede earlier spiritual philosophies, he first postulates infinite unexpressed Supreme Consciousness, which has no mind and can only be experienced by Itself. Infinite unexpressed Supreme Consciousness is uncaused and is the ultimate

cause of everything else. Concomitant with unexpressed Supreme Consciousness is Its unexpressed infinite Supreme Creative Power as the power of Supreme Consciousness. A portion of unexpressed Supreme Consciousness can become expressed or qualified, when Supreme Consciousness permits Its Supreme Creative Power to express Itself and give qualities to a portion of Its infinite Self. In the philosophy of P.R. Sarkar, the composite of infinite Supreme Consciousness (called Shiva or Purusha) and Its infinite Creative Power (called Shakti or Prakriti) is called Brahma.

The first sutra or aphorism of P. R. Sarkar's small philosophical treatise *Ananda Sutram* (3) ("Aphorisms of Divine Bliss" in Sanskrit) is "*Shivashaktyátmakam Brahma*: Brahma is the composite of Shiva and Shakti." "Brahma" means "that which is Great and makes others Great". Unexpressed Supreme Consciousness is called Nirguna Brahma (Brahma with only unexpressed or potential powers) while expressed Supreme Consciousness is called Saguna Brahma (Brahma with expressed powers.) This infinite Creative Power (Shakti) is the power of the Supreme Consciousness (Shiva) and is not a separate entity. Shakti is a composite of three gunas (binding principles or forces.) Sattvaguna is the sentient force, rajoguna is the mutative force and tamoguna is the static force. The relation between Shiva and Shakti is expressed by the second aphorism of *Ananda Sutram*: "*Shaktih Sá Shivasya Shaktih*: Shakti is the shakti (power) of Shiva." Shiva and Shakti are like two sides of a sheet of paper—neither side can exist without the other.

3. COSMIC MIND

When Supreme Consciousness gives Itself attributes or qualities using Its infinite Creative Power, first the Cosmic Mind is created. In its first level, the Cosmic Mind experiences its own existence ("I exist") through the application of the sentient principle to Supreme Consciousness. In its second level, the Cosmic Mind acts and experiences its actions ("I do") through the application of its mutative principle to the "I exist" level. In its third level, the Cosmic Mind experiences the results of its actions ("Done-I") through the application of its static principle to the "I do" level. The Cosmic Mind is witnessed and known ("I know that I exist") by the infinite Supreme Consciousness, expressed as the nucleus Consciousness of the Cosmic Mind. The further actions of Supreme Consciousness' creative powers applied to the Cosmic Mind, evolve other levels (lokas) of the Cosmic Mind. The crudest level of the Cosmic Mind expresses as the physical universe.

There are two main phases in the flow of cosmic creation or evolution in the Cosmic Cycle—from subtle to crude (called *saincara* or "movement") and from crude to subtle (called *pratisaincara* or "counter-movement). The first or extroversive phase of cosmic creation is from non-qualified Supreme Consciousness to qualified Supreme Consciousness, to the Cosmic Mind, to the crudest matter (existing within the Cosmic Mind). In the second or introversive phase of the flow of cosmic creation, matter evolves (while remaining within the Cosmic Mind) into protozoic living beings with individual minds. Living beings evolve over millions of years and many lifetimes, through plants and animals, until human beings evolve with very highly-developed minds, permitting them to express free will. Human minds finally merge into the non-qualified infinite Supreme Consciousness (this final merger is the deeper meaning of "Yoga"). This two-phase (extroversive and introversive) cycle of the Supreme Consciousness is both the proof and the fulfillment of the Supreme Consciousness, as expressed in the third aphorism of *Ananda Sutram*: "*Tayoh siddhah saincare pratisaincare ca*: Shiva and Shakti find their fulfillment in *saincara* (extroversive movement) and *pratisaincara* (introversive movement)."

The universe produces many different thought-waveforms within the Cosmic Mind, evolving fundamental particles, atoms, dark matter and dark energy, galaxies, stars, planets, biological molecules, protozoic life and individual minds, developed metazoic life and finally human beings with our highly-developed minds, capable of understanding the universe and its purpose. All of these

evolutionary processes and developments require the organization of matter and energy (evolved from Supreme Consciousness) into relatively stable yet evolving structures that later manifest as living bodies and minds. Such increasing organization within the universe seems to defy the general tendency of organized matter to physically “run down” i.e. increase its total entropy or “disorder”, according to the second law of thermodynamics.

Local increasing order (local decrease of entropy) does occur when highly organized living beings appear. One goal of materialist scientists is to explain the formation and evolution of living beings purely by the increasing organization of inanimate matter and energy. But this materialist approach has so far not been able to fully account for the formation and evolution of living beings by random variations and natural selection process occurring among chemical elements and following the known laws of physics, acting within the known age of our universe. The hope and expectation of materialist scientists, supported by the apparent inviolability of the second law of thermodynamics in our universe, is that all minor and major gaps in the current explanations of evolution will be explained by the materialist paradigm in the future, as natural science advances. Such hopes and expectations may not be fulfilled, particularly if the materialist paradigm is found to be inherently incapable of explaining human consciousness. In the consciousness-first paradigm, individual human consciousness is easily explained as the reflection or association of Cosmic Consciousness on each developed human mind.

4. MICROVITA

In the second half of the 20th century, the materialist scientific paradigm was showing growing “cracks” and inabilities (so far) to explain in detail the origin of matter (including dark matter), primordial life and the origin of the phyla or major biological families of living beings from matter and energy, and also the origin of advanced human minds and conscious experience from the physical brain. Materialistic science has also been unable to consistently and credibly explain certain demonstrated phenomena described as “parapsychological” such as telepathy, clairvoyance, out-of-body experiences (OBE’s) and near-death experiences (NDE’s). Also, it became apparent in the 1960s and afterwards that the values of certain universal physical constants seem to be “fine-tuned” or “just right” for producing galaxies and life in the universe. Physicist Robert Dicke (4) in “*Dirac's Cosmology and Mach's Principle*” claimed that two major forces in physics -- gravity and electromagnetism -- must be perfectly fine-tuned for life to exist in the universe. Britain’s astronomer royal Martin Rees (5) in *Just Six Numbers: The Deep Forces that Shape the Universe*, cited six physical constants of our universe whose apparently “fine-tuned” values allowed our universe to evolve in a way that makes possible the existence of stable galaxies and the emergence of life and minds. The explanation why our universe is apparently “fine-tuned” in this way has not been provided by current materialistic cosmological theories. If our universe were not so precisely “fine-tuned”, we would not even be here, or anywhere else in the universe, to tell about it.

Prabhat Ranjan Sarkar (1) introduced in 1986 the novel concept of microvita in a discourse “Microvita: The mysterious emanation of Cosmic Factor”. Emanated by (and within) the Cosmic Mind, microvita are subtle, sub-atomic living entities that could explain our universe’s “upward” or anti-entropic direction of evolution, by participating in the evolution of physical matter, biological molecules, protozoic life, individual minds, evolved plant and animal species, and evolved human beings with our rational and intuitional minds.

So far, the existence of microvita has not been demonstrated scientifically. P. R. Sarkar said that much research needs to be undertaken for this. The physical and psychological “secrets” or laws of microvita would describe all the anti-entropic, evolutionary actions of microvita in the universe. The

discovery and application of such laws through intensive laboratory and intuitional research could create the next scientific revolution as well as the consciousness-first scientific paradigm shift.

What exactly are microvita? P.R. Sarkar partly describes them in these selections taken from his first microvita discourse:

“But there are entities who come within the realm of both physicality and psychic expression which are smaller or subtler than atoms, or electrons or protons, and in the psychic realm they may be subtler than ectoplasms. For such objects or for such entities I use the term ‘microvita’. These microvita, or in plural microvita may be, are not of protoplasmic order, and as such they have got little to do with carbon molecules or carbon atoms, which are treated as the initial point or initial state of life in this universe. There, so far as physicality is concerned, these microvita are, their position is just between ectoplasm and electron, but they are neither ectoplasm nor electron.” (1)

“Now, these microvita, they move throughout the universe, from one celestial body to other. And thus they move everywhere, crossing the boundaries of nebulae, piercing through milky-ways, the galaxies, stars, satellites, planets and meteors. They move unbarred, without caring for the atmospheric condition or the barometric reading. And how do they move? Every body requires some media for movement. Mobility means movement through medium or media. There may be more than one medium, that is, there may be many media at a time in the same movement. These microvita also move through several media. They move through sound. The virus of a diseased man, the so-called virus of a diseased man, not “deceased”, diseased man may move through his sound. They may move through tactuality. They may move through forms, figures. They may move through fluids. They may move through smell. In case of some of the diseases, the disease spreads through smell, smell of the disease. And in case of subtler microvita, they may move through ideas. A particular idea may get accelerated speed in a particular planet with the help of a few conceptually developed minds. That is, a great man with great conceptually developed mind may spread his idea through, with the help of these microvita, throughout that planet or even throughout this universe in different celestial bodies. (1)

“Now, what is the root cause of this universe? What’s the, which one is the starting point of life or vitality? These microvita, they’re the carriers of life in different stars and planets and satellites – and not carbon atoms or carbon molecules. But these living creatures with their mysterious movement create minds and bodies, living bodies in different celestial bodies, and they are, they also destroy minds and physical bodies, or developed or undeveloped corpus, in any corner of this universe. So the root cause of life is not the unicellular protozoa or unit protoplasmic cell, but this unit microvita.” (1)

“It is human wont that whatever we know regarding any subject or any object, when we know that it exists but its characteristics and other particulars are not known to us, we say it is “mysterious”. So regarding these microvita, we may say it is mysterious. That’s why I used the term “microvita, the mysterious emanation of cosmic factor”. They are neither of protoplasmic order, and hence the question of their protozoic structure or metazoic structure there doesn’t arise. They are something mysterious.” (1)

“Now, these microvita are not of same density or same subtlety. Some of them may come within the range of highly developed microscope; some of them may not come within the range of microscope, but their actional expression or through their actional faculty or as a result of their actional vibrations, they may come within the scope of our perception. They are of subtler order. There may be still more subtle forms of microvita who may not come directly within the scope of our perception but they may come within the scope of a special type of perception which is actually reflection of conception within the range of perception in a limited sphere.” (1)

“Now, there should be extensive research work regarding these microvita or these microvita. Our task is gigantic and we are to start our research work regarding these microvita immediately without any further delay. Otherwise, many problems of modern society won’t be solved in a nice way.” (1)

“And I think, by dint of our spiritual sáadhaná, rather physico-psycho-spiritual sáadhaná, our mind will develop in all its strata, and the power of conception, the power of conceiving, will also develop, and with that developed conceiving power, we’ll know all the secrets of these microvita.” (1)

P.R. Sarkar (6) elaborated his concept of microvita in a series of discourses that are collectively published as *Microvita in a Nutshell*.

Much research must be carried out on the subject of microvita. P. R. Sarkar indicated that some of this research can be conducted in physical laboratories. Research on microvita’s psychic properties needs to be conducted in our mental laboratories, i.e. through physico-psycho-spiritual practices or sáadhaná. Microvita researchers also have to become more conceptually developed in order to better understand the subtleties of microvita. Several researchers in different parts of the world have taken an active interest in developing our knowledge of microvita. Although P.R. Sarkar’s discourses about microvita are well-documented, he only gave general descriptions and hints about conducting microvita research, and how microvita behave in different areas, leaving it up to microvita researchers to develop the theory and practical application of microvita.

Microvita as Evolutionary Cosmic Intelligence Agents

How do microvita fill the role of cosmic intelligence agents that create an upward evolutionary trend in the universe? Whenever an organized structure is evolved, whether inanimate or animate, there has been a local decrease rather than increase of entropy or disorganization, although the total amount of entropy in the region has increased. The organization of a subatomic particle from energy, the organization of a complex biological molecule from component atoms, the organization of energies within a structure to create a living being, the creation of an organized mind with its organized activities, the evolution of a species with greater physical and mental complexities, and the healing of a disease that was disorganizing the mind or body, all represent the development or stabilizing of a physical or mental structure at a higher level of complexity. According to P.R. Sarkar, microvita are actively involved in all of these processes. Microvita may also be involved in the evolution of whole societies by bringing new ideas and concepts, such as the wheel or script, to intuitionally-developed members of the society. Here are some the major evolutionary areas where the anti-entropic organizing activities of microvita may be expressed, with supporting quotes from P. R. Sarkar when available:

5. COSMOS

Microvita as the ‘silver line’ separating idea and matter in the Cosmic Mind

Our universe or cosmos contains matter and energy. But the primordial origin of both energy and matter is obscure, despite recent advances in cosmology. Whether our universe began with a Big Bang or not, physical matter such as atoms and molecules is usually assumed to have been produced from energy. But perhaps the evolution of matter required something in addition to energy, i.e. microvita emanated from and within a Cosmic Mind.

Question 23: What is the silver line between the quinquemental (containing 5 physical elements) universe and idea – that is, between the initial stage of matter and microvita? (7)

Answer: Microvita are the initial stage of matter. Although they are matter, they are very, very subtle. All of a sudden microvita are transmuted into matter and matter is transmuted into microvita. For investigating the initial stage of matter, research is not possible in physical laboratories, but it is

possible in the human mind and human soul. Microvitum is closer to the realm of ideas than matter. (7)

Then, what is the silver line of demarcation between matter and idea? Of that silver line, the outside is matter and the other side, the inner side, is idea. That is, this silver line is made of the initial stage of matter and the cruder stage of idea. If you consider that the atom is the constituent of matter, likewise idea is the constituent of microvita. (7)

If matter maintains a close proximity to microvita, microvita maintains a close proximity to idea. Here is the line of demarcation. That is, if you powder down atoms then you get microvita, but if microvita could be powdered down you would get idea. Just as atoms are not perceived by the naked eye, but only by experimental results, similar is the case with microvita. But while atomic research can be done in physical laboratories, microvita research can only be done in the human mind and soul. (7)

So, microvita are the initial stage of matter. Microvita are the silver line between idea and matter, though they are closer to the realm of ideas than matter. (7)

This “silver line” between idea and matter sounds a lot like the quantum field described in modern physics. In quantum field theory, space is not viewed as empty, but as full of the quantum fields corresponding to all physical particles, and having a very high energy density. Physical particles are emitted into space from the quantum fields or quantum vacuum and also reabsorbed into the quantum vacuum. This could explain his sentence: “All of a sudden microvita are transmuted into matter and matter is transmuted into microvita.”

Formation of fundamental particles and atoms from microvita

Microvita be positive, negative or neutral. These differences are relative. For example, the same kind of microvitum might be negative (cause disease) in a human, positive for a snake, and neutral for a lizard. In general, positive microvita are pro-mind (act more on the mind), negative microvita are pro-matter (act more on matter), and neutral microvita are in between.

P.R. Sarkar said that negative microvita can form sub-atomic particles, and sometimes unicellular and multicellular life. This means that they carry the information about the properties of sub-atomic particles and the capacity to form particles, protozoa and metazoa by organizing energy. Here is a quote about this:

“The pervasive, stinking smell which results from the decomposition and disintegration of rotting animal or plant bodies attracts negative microvita. This negative microvita causes the creation of newer carbon atoms and other sub-atomic particles. These particles then create unicellular life, and sometimes, somewhere, multicellular heterogeneous life also. The origin, existence and disappearance of these entities are rooted in negative microvita.” (8)

If certain microvita carry the information needed to form fundamental particles, they must also carry the information about setting the finely-tuned physical constants that permitted the formation of our universe in the first place. In the Cosmic Cycle, these fine-tuned physical constants would first be calculated within the Cosmic Mind and then programmed into microvita. These microvita are then the carriers of cosmic intelligence that allow them to carry out their organizing functions for evolving matter, life and individual minds in the universe.

Current scientific thinking is that the chemical elements first formed from sub-atomic particles. According to P. R. Sarkar, microvita form both sub-atomic particles and chemical atoms.

“It is true that every protozoic structure is based on carbon atoms. A single microvitum is insufficient to form one carbon atom, but when billions of microvita get solidified, a carbon atom is formed –

generally or naturally of heterogeneous nature, and under special circumstances of homogeneous nature. Singularity or plurality of atoms constitutes one molecule and many molecules acquire the status of an element, either elements of homogeneous nature – hydrogen, carbon, helium, etc. – or elements of heterogeneous nature – hydrogen monoxide, hydrogen peroxide, carbon monoxide, carbon dioxide, etc.” (9)

and

“Billions of microvita produce a single carbon atom. That is why it cannot be said that everything comes from carbon atoms. Rather, the carbon atoms come from microvita. Not only carbon atoms, but all other kinds of atoms are the creation of microvita. Naturally, chemistry, biochemistry and all other associated branches of science will undergo a revolutionary change.” --Neo-ethics of multilateral salvation (9)

Atoms are composed of microvita, but microvita are closer to idea than to matter (i.e. microvita are more abstract – more like ideas than matter), according to P. R. Sarkar. The following quotations may be better understood if the Cosmic Mind is conceived by the reader as having an objective portion that contains different vibrational levels with varying degrees of subtlety—ranging from very subtle (longer wavelength) cosmic ideas to very crude (short wavelength) matter. At the cruder level of this objective Cosmic Mind, before the level of matter is reached, there is a level of crude cosmic ideas. Then there is a level (also within objective Cosmic Mind) of physical matter, composed successively of five fundamental physical factors of increasingly shorter wavelengths (etherial, aerial, luminous, liquid and solid) according to the relative interatomic or intermolecular distances. Between the level of cruder ideas and the level of quinelemental (5-elements) matter, there is a “silver line” consisting of microvita, evolved from these cruder ideas. These microvita are extremely subtle matter. Finally, there are the different stages of matter with atoms created from microvita.

6. WHAT IS LIFE?—"THE CEASELESS FIGHT TO RESTORE AN UNSTABLE EQUILIBRIUM"

We have seen that, despite the second law of thermodynamics in physics, there is an unexplained upward or synergistic direction of evolution in the universe, from matter to mind to higher consciousness, that has not been fully accounted for by the current materialist paradigm of science. Matter and living beings tend to evolve from lower levels of material organization to higher and higher levels, producing minds (transformations from cruder to subtler consciousness) and finally developed intellects capable of analyzing, predicting, understanding and controlling many of the natural phenomena that come within the range of perception of human minds. While the deeper nature of life, mind and consciousness remain unexplained in the materialist paradigm, the proposed consciousness-first paradigm gives full scope to the possibility of explaining all of these currently mysterious phenomena. The proposed new consciousness-first or spiritual paradigm opens the possibility, while remaining within this new paradigm, for human minds to attain oneness with an infinite and transcendental non-qualified Supreme Consciousness that has created the universe with its evolutionary processes according to the desire of Supreme Consciousness bring all of its created beings back to oneness with their creator—the Supreme Consciousness.

Fortunately, there have historically existed highly conscious human personalities who have shown deep understanding of the physical world, mind and consciousness and have apparently been able to tune-in to the Consciousness that created the universe and to express and describe rationally as well as symbolically what they experienced at the highest intuitional level.

Prabhat Ranjan Sarkar was apparently one such spiritual personality. He rationally explained the cosmic cycle of creation—from Supreme Consciousness to matter and back to Supreme

Consciousness – as a divine flow of creation and evolution. The observed synergistic upward flow of biological evolution from matter to mind and higher consciousness is a fundamental expression within the cosmic cycle of creation. The synergetic facts of evolution are strong evidence that such a cosmic cycle of creation is acting, and has its source in a Supreme Consciousness.

What is life in the cosmic evolutionary process? Although peace and happiness are highly sought in individual and social life, it appears that infinite peace and happiness are only attainable by merging with the Supreme Consciousness. All other experiences of peace and happiness are relative and limited in time and space. Even relative peace and happiness, when there are attained temporarily, are generally obtained by overcoming a variety of obstacles in individual and social life. P. R. Sarkar expressed that struggle and conflict are an intrinsic part of the evolutionary path. According to him, all human beings need to accept this fact and face it with a positive, even warrior-like attitude. “Peace is the result of fight” is the teaching of Tantra—the spiritual approach to life that teaches that internal and external fight is always required to replace crude expressions by subtle expressions, in every sphere of existence. There is a constant battle going on in the universe between the subtle or spiritual force called Vidyá and the crude or material force called Avidyá. These two forces are inherent in the creative processes of the Supreme Consciousness, expressed by the Cosmic Mind in the cosmic evolutionary process.

Here is what P.R. Sarkar said about this unending conflict or fight between these opposing forces:

“Fight is the essence of life. Biologically, life is an expression of inner stamina, and externally or physically, it is a ceaseless fight to restore an unstable equilibrium. Anywhere and everywhere in the universe there is conflict. Why? If one looks at the process of creation, one will observe that creation originated from the nucleus. In the first phase of creation, that is, the phase of expansion, it is Avidyá or material force which supplied stamina to the Cosmic Mind, which is the cause of the process of creation. However, it cannot be denied that Vidyá or spiritual force is totally absent in this phase. In fact, in the struggle between Vidyá and Avidyá the former is suppressed by the latter and the resultant is expansion from the original nucleus. In the second phase, namely the phase of withdrawal, it is Vidyá which supplies the life juice for an interial move to the nucleus. Here also Avidyá is fighting a losing battle. In essence, in every sphere there is fight between Vidyá and Avidyá, and the resultant is interial or exterior progress. When Avidyá wins the process of crudification goes on; when Vidyá wins the process of introversion goes on.” (10)

“Everywhere in the manifested or unmanifested universe there is a ceaseless fight going on between Vidyá and Avidyá. For running a government, we require strong military and police forces, for in society there is also the fight between Vidyá and Avidyá. Even within one’s self, such a fight will continue. Those countries which cry for disarmament are also preparing within for war. Even after the establishment of a universal government we will require military and police forces for maintaining peace.” (10)

If life is the “ceaseless fight to restore an unstable equilibrium”, what is the unstable equilibrium that life is the fight to restore? The universe itself is a state of non-equilibrium. It is constantly moving, constantly changing. But this motion is not random. Its motion is guided and directed by the Supreme Consciousness. Life is the active expression of the direction in which the universe is moving within the Cosmic Mind, within which the universe was created. And what is the goal of that directed life movement, the goal that is attained sooner or later by each individual conscious entity or individual soul in the creation? It is the infinitely tranquil, infinitely peaceful and infinitely blissful state of equilibrium of the unexpressed Supreme Consciousness. This is the state of unstable equilibrium because it is the state of infinite potentiality of expression of infinite intelligence and infinite creativity. In the state of unstable equilibrium of unexpressed Supreme Consciousness, this unexpressed Supreme Consciousness is always ready to burst out of its unstable equilibrium into the expression of a new universe with a new state of restlessness and life. But it only a portion of unexpressed infinite Supreme Consciousness that is expressed into life, that is born into cosmic life.

The unexpressed Supreme Consciousness is infinite. The portion of unexpressed Supreme Consciousness that is expressed into cosmic life is also infinite, leaving an infinite portion of infinite Supreme Consciousness still unexpressed, still in unstable equilibrium.

Cosmic Intelligence is expressed by both Vidyá (spiritual force) and Avidyá (material force) – it is the intelligence of the Supreme Consciousness expressed through its infinite Creative Power. The result is a cosmic drama played on a cosmic stage on many levels. On a cosmic level it is a fight between spirit and matter, between subtle and crude. On a human level is a fight between right and wrong, between good and evil. Individual human beings are ultimately victorious when they purify all the levels of their minds through their spiritual efforts or sadhana, and become one with the Supreme Consciousness as a result their all-around efforts against opposing internal and external forces.

What is the role of microvita in the above general description of life? Positive microvita may be the practical expression of Vidyá, the spiritual force in the Cosmic Cycle, while negative microvita express Avidyá, the material force.

7. THE ORIGIN OF THE FIRST LIVING CELLS

The Evolution of Unit Minds

Unit minds evolve at the beginning of the returning phase of the Cosmic Cycle. Just like in the Cosmic Mind, unit minds have some sense of existence (“I exist”), doership (“I-do”), and an objective portion of mind, which has a sense of objects (“Done-I”). “Done-I” evolves first in unit minds, since it is crudest mind (evolving from matter), followed by “I-do” evolving from “done I”, and “I exist” evolving from “I do”. All three of these increase as plants and animals evolve, until all three levels of unit mind are highly developed in human beings. But how does the “I” sense first emerge from matter? According to P.R. Sarkar, “I” feeling emerges from the microvita that form carbon atoms, when carbon atoms are in cohesion with other carbon atoms:

“So many microcosms, so many microvita, are there. They have not got clear “I” feeling. Their existence is more of physical nature than of psychic nature. The collective body of microvita is another name of carbon atom. Carbon atom is another name of so many microvita with so many specialities, with so many characteristics. The collective body of microvita is the collective “I” feeling maintaining a relationship with the physical body. There is no such relationship in the case of a dead physical structure.” (7)

Each structure of carbonic origin in this universe, whether animate or inanimate, has a mind. That is, a mind is associated with every structure either in manifested form or in dormant form. Where the mind is not expressed there is no endoplasmic coverage, and where the mind is expressed, endoplasmic coverage shall be there. (9)

“The collective body of microvita is carbon atom, and when carbon atoms are in cohesion with other carbonic atoms, “I” feeling is created. As coverage of these collective bodies there is endoplasm.” (7)

P. R. Sarkar uses the term “endoplasm” in a difference sense that biologists. For him it is a mental structure rather than a physical cellular structure. He said that individual microvita “have not got clear “I” feeling.” But this suggests that individual microvita do have an unclear “I-feeling”, which is what one might expect a living cell to have. The implication is that the more the microvita are associated together in an individual carbon atom or in groups of carbon atoms, the more “I” feeling expresses or become clearer.

But a living being also requires a stable body to associate with an emerging mind. Let us suppose that collective “I” feeling is starting to emerge in a group of carbon atoms. How does this “collective “I” feeling acquire a physical body, formed from organized bio-chemical molecules?

The Evolution of Living Cells: Microvita, Viruses and the Origin of DNA or RNA

Microvita may play a starring role in the origin of the first living cells, both through their relation to atoms and their relation to viruses. We have previously discussed the relations of microvita to atoms, i.e. billions of microvita solidify to form a carbon atom. All atoms are formed from microvita. Now let us see the relationship of microvita to viruses.

The crudest form of microvita are related to viruses, according to P.R. Sarkar:

“So these microvita may be broadly divided into three categories – coming within the scope of microscope; not coming within the scope of microscope but coming within the scope of perception as a result of their expression, as a result of their actional vibration; and third one, not coming within the scope of common perception but coming within the scope of a special type of perception which is actually reflection of conception within the periphery of perception. And such perception – the special type of perception – may be felt or realized by persons having highly developed mind, having spiritually-oriented mind. Regarding those who are of cruder order, and that may come within the scope of microscope, people say, “Give it the name virus”. They say, “This disease is of virus creation, of virus origin.” Like this. But virus is a vague term. The better term will be microvita, and not virus.” (1)

In 1988, P.R. Sarkar made several remarkable statements about microvita outside of his microvita discourses. Several of these statements about the origin and expression of microvita are summarized below.

“When solid matter explodes at the atomic level, billions of microvita that have solidified to form the atom may awaken. Microvita are dormant in the atom and very small. When jadasphota occurs, microvita awaken and take on a different structure. If the environment is changed, microvita change to suit the environment. That is how a tiny microvita can change and become so large that it can be seen through a microscope.” (11)

“Microvita when awakened develop a personality that depends upon the environment. If jadasphota takes place in a solution of Fe_2O_3 you will get one structure. The structure will be different in different environments. If it is in another structure such as Fe_3O_4 it will be different. As the environment will affect the structure of microvita, that structure will keep changing as microvita move through different environments.” (11)

“When a microvita has been awakened and enters a cell, a virus adapts to the environment of the cell. You get a virus when a microvita has entered a cell and developed.” (11)

“The RNA and DNA of a particular virus is unique to that virus. Particles of Cosmic Citta (Objective Cosmic Mind), when microvita are emanated from Cosmic Mind, already contain the information for RNA or DNA. This information is there but not seen until microvita is awakened, and when it is in virus form then we can detect it.” (11)

This last sentence is key to understanding the role of microvita in the origin of life. According to P. R. Sarkar, microvita, extremely subtle material entities emanated from a subtle layer of the Cosmic Mind, carry the codes for DNA or RNA in a subtle form. These microvita, when “awakened”, transform into viruses in a suitable environment, to produce physical DNA and RNA molecules essential for the creation of living cells. This means that DNA and RNA, the key molecules of living biological cells, are not produced by chance combinations of atoms in a primordial sea, on land, in space or anywhere else in the universe. Coded instructions for making specific DNA or RNA

molecules are produced in an intelligent, pre-planned way by a super-intelligent Cosmic Mind (which contains the whole universe as a complex thought wave). The coded instructions are packaged, emanated as microvita, and delivered to a suitable physical-chemical environment.

These microvita or evolutionary cosmic intelligence agents have a specific cosmic mission--to create living cells. In a suitable environment, these microvita awaken, expand and transform into physical viruses and assemble their encoded RNA or DNA information into physical RNA or DNA molecules crucial for the production of biological cells. When a biological cell structure is produced by this DNA or RNA, a unit mind having I-feeling produced by microvita composing carbon atoms, is associated with this biological cell. I propose that these dormant microvita composing carbon atoms and producing a unit mind with I-feeling, are the same microvita that, when “awakened” by an “atomic explosion” in certain chemical solutions, decode the DNA or RNA codes they are carrying and produce a biological cell. This unit mind is associated with the produced biological cell. The unit mind then activates or “jump-starts” the biological cell with appropriate vital energies, also organized by these microvita or the associated viruses, to produce a living cell.

The first protozoic cells may have been created by the action of viruses produced from DNA or RNA-carrying microvita awakened from radioactive atoms composed of billions of microvita. An experiment to test this hypothesis has been proposed and is in the planning stage. (12) A confirmed positive result in this experiment could overthrow the materialist paradigm, because there would be no materialistic explanation for a genuine positive result in this experiment. Even though microvita may be considered natural entities, the source of the DNA or RNA codes that they bring with them from atoms could only be some kind of cosmic intelligence or cosmic mind.

8. THE ORIGIN OF SPECIES

Microvita continue to play a major role in the evolution of plant and animal species. They evolve physical bodies and minds:

“Microvita may affect the glands and sub-glands or the nuclei of the nerve cells, and even the transformation of species and the transformation of sex may occur. Microvita may directly affect the plexi, and through the plexi the mental propensities or vrttis are affected. Vrttis or propensities are of three types – pro-physical propensities, psychic propensities and pro-spiritual propensities. All these three types of vrttis are affected.” (7)

and

“The internal protoplasmic formula will change. Nuclei can also be affected by microvita, and protoplasm will be affected by bringing changes in the nucleus with the help of microvita. The displacement of the nucleus can be brought about with the help of microvita, which will bring qualitative change in the internal structure. Internally, the hormones will be affected, and thus externally, the corporeal structure will also be affected. The longevity of all forms of protoplasm is twenty-one days. Changes will also occur in this regard. A change in the very appearance of human beings is also sure to come.” (13)

Microvita evolve individual minds as well as bodies. Microvita create individual minds with individual “I-feeling”.

“So many microcosms, so many microvita, are there. They have not got clear “I” feeling. Their existence is more of physical nature than of psychic nature. The collective body of microvita is another name of carbon atom. Carbon atom is another name of so many microvita with so many specialities, with so many characteristics. The collective body of microvita is the collective “I” feeling maintaining

a relationship with the physical body. There is no such relationship in the case of a dead physical structure.” (7)

and

“The collective body of microvita is carbon atom, and when carbon atoms are in cohesion with other carbonic atoms, “I” feeling is created. As coverage of these collective bodies there is endoplasm.” (7)

Microvita are emanated from Cosmic Mind, according to P.R. Sarkar, that already contain coded information for RNA and DNA that is used to form physical viruses containing RNA and DNA molecules. Such RNA and DNA could then be used to create the first biological living beings. Later, the Cosmic Mind could emanate different microvita that would produce RNA and DNA that would help a species transform to another species.

One of the big mysteries in biological evolution, as seen in the study of fossils of past species, is that the fossils of related species are actually very distinct, and show little or no fossil evidence of evolving gradually from one species to another. The current theory of neo-Darwinism describes random mutations of DNA and natural selection among different species members that determines which species members will survive to form a new species. This process may work for producing variations within a species, but has been unable to reasonably explain the emergence of different families of animals in the time periods available for such random mutation processes to occur. New species often appear in the fossil record during very short time intervals, geologically speaking, that cannot be explained by gradual evolutionary processes. Eldredge and Gould (14) proposed the hypothesis of “punctuated equilibrium” that describes how sometimes a new species emerges very quickly in particular geological eras, and then remain physically unchanged for long periods. While this hypothesis matches fossil records which shows this pattern, it doesn’t provide a mechanism for how punctuated equilibrium occurs.

But according to P.R. Sarkar’s above description, during biological evolution of a species, the Cosmic Mind could emanate microvita carrying just the right DNA or RNA information codes (in a non-molecular form) that would later evolve viruses with the corresponding DNA or RNA in molecular form. This virus-carried DNA or RNA is not produced by random mutation of existing DNA or RNA. Its information code was emanated with microvita from the Cosmic Mind and later generated the physical DNA or RNA. This physical DNA (or DNA produced from the RNA by the chemical named reverse transcriptase) would be stitched into the species’ own genetic material. When this new DNA enters the reproductive cells of some of the species members, the offspring of the species members would be members of a new species. Such rapid changes from one species to another due to Cosmic-Mind-evolved DNA and RNA would explain the rapid change from one species to another that is often observed in the fossil record.

The above account of the Cosmic Mind emanating microvita containing DNA or RNA codes for the evolution of biological species leaves several questions unanswered, such as “Do species play an active or passive role in their evolution to different species?” and “How does the RNA and DNA needed for species transformation, once emanated by Cosmic Mind, get to the species that are being transformed?” The keys to answering these questions may have been contained in several hints given by P.R. Sarkar in other discourses. The following section, up to the next major section HEALTH, is taken from my book *Microvita: Cosmic Seeds of Life*. (11)

9. A SARKARIAN (NON-DARWINIAN) THEORY OF THE ORIGIN OF SPECIES

On May 30, 1987, P. R. Sarkar presented some revolutionary new ideas on the origin of species. The ideas pose a direct challenge to the theory of the origin of species originated by Charles Darwin and accepted almost universally by biologists in a modified form called neo-Darwinism. If proven correct, P. R. Sarkar's ideas will have a profound effect not only on our understanding of the origin of species, but on the origin of life itself. There are practical implications, as well, for the genetic engineering of new forms of life to alleviate medical, agricultural and environmental problems facing humanity.

The discourse is entitled "Four Dimensions of Micro-psyhic Longings". (15) In it, P. R. Sarkar indicates that a group of living beings may metamorphose its physical structures and hormones to bring a desired change in its instinctive, or psycho-physical, longings for physical objects. What this means is that members of a species of animals or plants, as well as human beings, may transform themselves into another genetic variation or even a different species if the group collectively doesn't like the way its present instinctive longings are expressed. P. R. Sarkar indicates that this change is initiated by the collective self-controlling faculties of the species.

P. R. Sarkar does not describe precisely how such a self-induced metamorphosis takes place. But even in a general way, this new explanation for the origin of species clearly opposes the explanation for evolution offered by neo-Darwinism. According to that theory, species evolve due to competitive advantage gained from many small, essentially random modifications in their individual structures caused by genetic mutations, followed by natural selection, over very long periods of time.

Here I will outline a more specific hypothesis of the origin of species, that integrates some of the ideas P. R. Sarkar expressed on the subject of microvita in an earlier discourse "Microvitum--The Mysterious Emanation of Cosmic Factor" (1) and in a subsequent lecture, "Neo-Ethics of Multilateral Salvation". (9) Microvita, according to P. R. Sarkar, are tiny, subtle forms of living creatures currently unknown to science. They are, he says, the root cause of life, as opposed to carbon atoms. Billions of microvita (plural of microvitum) can solidify to form a single carbon atom. Certain collective structures of more subtle microvita provide the psychological cause for negative social phenomena such as imperialism. A microvitum is truly an amazing creature.

The viruses have the effect of modifying species members' physical structures to express their instincts differently. These viruses are the creations of microvita. These microvita are originally emanated from the Cosmic Mind, to the chakras of living beings. By organizing vital energy, these microvita create molecular structures such as DNA, RNA or viruses that can modify the expression of instincts or propensities of a group of organisms by modifying the genetic material in their cells. Microvita are emanated from the Cosmic Mind to the chakras of living beings to aid their all-round development.

The Self-Controlling Faculties

According to P. R. Sarkar, (15) "In each and every physical and psychic structure, there remain self-controlling faculties". This is also true of instinctive or psycho-physical longings for physical objects. These instincts may be either inborn or developed. "And in case of collective structures regarding these psycho- physical longings, if it is seen that the collective body of a particular nature of living beings or expressions do not like it, then the controlling faculty creates a sort of change and metamorphosis in the physical structure, and as a result the nature of longing also changes."

In the case of individuals, the efforts of the self-controlling faculties to advance are limited by the vital principles of the physical structure. Attempts to surpass these limits result in the decomposition of the physical structure. "But in the case of the collective body or the collective structure there may

be a change, and that change may not go against the characteristics of physical structure if there remains a constant endeavor for such a change, rather for such a metamorphosis.” “And in a collective body, the collective controlling faculty may create a sort of change in the physical structures if such a change is supported by Macrocosmic conation, otherwise not.”

Primordial instincts and self-controlling faculties exist in both living and non-living structures. P. R. Sarkar indicates that only a collective body, i.e. a group of animals or plants can collectively change their structures through collective endeavor, but individual animals or plants cannot. When the change takes place, it occurs in the whole group. As a result, a new species, or a genetic variant of the former species, is created.

It appears from P. R. Sarkar’s discourse that for each instinct in an animate and inanimate structure, there is a corresponding self-controlling faculty. That faculty goads or guides the structure, whether human, animal, plant or inanimate object, in its expression of that instinct. In addition to psycho-physical longings or instincts, which are of two types--either inborn or developing later on--there are also micro-psyche longings for psychic pabula, or objects. This is the third dimension of micro-psyche longings. Finally, there is apexed psychology or pinnacled psychology. Here the mental faculties as well as the controlling faculties move upward and are pointed, finally merging into the macrocosm or the supra-cognitive entity. This is the fourth and final dimension of micro-psyche longings.

One way to view a species is as a structural category physically objectifying the complete collection of micro-psyche longings possible for that species. In order to significantly change the expression of instinctive longings in a species, some members of that species must be metamorphosed into a new species, or at least a new genetic variety of the old species. The collective controlling faculties monitor the expression of particular longings. When dissatisfaction is continuously and collectively expressed by some members of a species about its instinctive longings, and there is a constant endeavor for change, the collective controlling faculties transform these members into either a new species or a genetic variant of the old species, with a new set of expressions of micro-psyche longings.

The physical structure of a species is encoded in the genetic information in the chromosomes of each member of the species. DNA is the double-helix molecule that encodes this structural information precisely, according to the genetic code. So DNA encodes in a molecule the physical base for the expression of the micro-psyche potentialities of a species. To change the instinctive expressions of a group of living beings it is necessary to change the DNA in order to transform a group from one species or genetic variety into another.

What are these self-controlling faculties that can cause a group of living beings to metamorphose from one species to another? Clearly they are something beyond the range of current biological understanding. According to Yoga philosophy, in higher animals and plants and in human beings, the first five chakras control the five fundamental physical factors in the body--solid, liquid, luminous, aerial and etherial. They also control the expression of instincts associated with each chakra. These instincts are expressed with the help of secretions from glands associated with the chakras. The sixth chakra in human beings is the controller of almost 450 propensities, according to P. R. Sarkar. The seventh chakra is the seat in the human structure of Supreme Consciousness, the ultimate controller of all the micro-psyche longings of the human being. So it seems that, at least for human beings and for higher animals and plants, the chakras are the self-controlling faculties referred to recently by P. R. Sarkar. If this is so, it means that the chakras, acting collectively, have powers of species transformation that were not previously suspected. It is little wonder that the actual mechanism of the origin of species has remained unknown to biologists until today.

Where do microvita come into the process of species transformation? According to P. R. Sarkar, microvita are emanations of the Cosmic Mind that guide the all-round development of living beings. This includes physical and psychic development as well as spiritual development. Living beings will be affected by microvita sent to the chakras to enhance positive and negative propensities, or to reduce them.

So the chakras are the controlling faculties of living beings, and microvita are the means used by the macrocosmic conation to help develop these faculties. Furthermore, the microvita that control and direct the vital energy of living beings are, we propose, located at the five lower chakras, which are the nuclei for controlling the five fundamental physical factors within an organism. But the chakras are also self-controlling faculties, they have a degree of autonomy to guide the expression of micro-psychic longings. As self-controlling faculties, the chakras, including the sixth chakra, which controls the mind, would monitor the level of satisfaction of the members of a species in relation to particular instincts. These self-controlling faculties would then initiate the process of creating structural changes necessary to modify instincts and increase the satisfaction of the species members. These structural changes, producing species transformation, must have the support of macrocosmic conation. This ensures that the changes will benefit not only the members of the species, but the collective well-being of all animals and plants affected by the changes.

How do the chakras attract the microvita necessary for the structural transformation of a species? And how do the microvita, once attracted, carry out this transformation? To the first question we can propose one possible answer. As mentioned before, there must be a very close connection between the instinctive longings of a species, and the DNA code for its physical structure. Changes in instinctive longings require changes in the cellular DNA. I suggest that the Cosmic Mind responds to these self-controlling faculties and emanates microvita that carry the genetic information that can bring about the desired changes. While this answer is not very satisfactory from a scientific point of view, it opens up the possibility that the microvita themselves, once emanated from the Cosmic Mind, can be studied to see how they then bring about the desired structural changes in the species members.

If microvita can be identified as the immediate causes of structural changes, i.e. if the changes can be explained by the microvita hypothesis and in no other purely physical way, then the possible sources of the microvita can then be examined to determine if it is necessary to invoke a Cosmic Mind as their source. It should be mentioned that the microvita bringing these changes would contain the information in the genetic code. Otherwise, how could they create molecular structures embodying the code? So microvita carrying specific genetic information would be emanated from the Cosmic Mind and directed to the chakra or chakras requiring it. These chakras would then utilize this genetic information to change the DNA of the species members. This brings us to the second question: how is this transformation brought about by the microvita?

Viruses and Species Transformation

When P. R. Sarkar discussed the crudest type of microvita, which he said can be seen in a very powerful microscope, he said that "virus" is a vague term, and that a better term would be "microvita". Microvita, he said can both create and destroy bodies and minds. Viruses are known for their ability to cause diseases in animals, plants and human beings. Why is "virus" a vague term? Because viruses must be able to do more than cause diseases. They must have another role to play in life processes--perhaps a more important role, even their main role--that of carrying new genes that transform species, to cells and organisms that require these genes. If viruses are one expression of microvita, then viruses should play a crucial role in the origin of species. What can that role be?

According to our developing microvita hypothesis, certain microvita can organize vital energy that then creates complex biological molecules such as proteins and RNA from their chemical building

blocks, which are formed by other natural processes. Viruses, which are structures of protein, DNA or RNA and several other substances, could also be evolved from the action of microvita. In the right chemical environment, those microvita would create the molecular viruses. So the essence of a virus is the microvita that create it and reside within in at its microvita nucleus, maintaining the structure of the virus by controlling its vital energy or Pranah.

The basic ways viruses assist in both the creation of life and the origin of species may well be the same. Since viruses carry genetic information in the form of DNA or RNA, they could add genetic information to structures where none previously exists. This would permit the creation of living cells from non-living structures. Or viruses could add genetic information to living structures where there is already genetic information in the form of DNA. This could create a new species. Here we will focus on the evolution of new species by the action of microvita and viruses.

The main idea is that, by a biologically feasible process, a particular microvita-evolved virus could "infect" animals and plants of a single species and transform them into a new species. How could this happen?

According to our hypothesis, the chakras--the collective self-controlling faculties of a species--may change the physical structures of the species, creating a desired change in the instinctive longings. Somehow microvita carrying the necessary genetic information are attracted to the chakras. What do these microvita do? They create viruses, probably retroviruses, whose RNA (enclosed genetic information) corresponds to the change in the DNA that is necessary to metamorphose the species into a new one.

A virus is a tiny structure that contains some DNA or RNA and perhaps some associated enzymes, surrounded by a coat of protein molecules. It is known from recent research that certain viruses, called retroviruses, may enter a living cell and by a process called reverse transcription, cause the viral RNA to be transformed into DNA. This DNA is then inserted into the DNA of the infected cell. The DNA produced by the virus is then an integral part if the DNA of the cell. With the AIDS virus, this process is known to occur. After an AIDS virus has acted on a cell, a later infection will stimulate the cell to make copies of the virus. Most of the cells infected by AIDS are killed in this process. This is what reduces a person's immune response. It is mostly cells of the body's immune system which are infected by the AIDS virus.

But there is no reason why viruses have to kill cells when they reproduce. Many viruses do not. A virus could insert its DNA into a cell's DNA. The cell would then make copies of the virus, which would infect other cells and change their DNA also. The viruses could then leave all the cells, which would continue to function with modified DNA.

The difference between one species and another closely-related species depends only on the difference in their DNA (actually the difference in the microvita within the DNA). Microvita attracted to an organism by the action of its self-controlling faculties could create the RNA needed for a species transformation. These new microvita would remain in the newly created RNA. The RNA would be packaged in a viral coat, also originally a creation of microvita. The viral packaging ensures that the RNA will get the widest possible distribution to target cells and species members, because of the reproductive capability of the virus in a cell and the ability of the virus to spread efficiently among species members. A particular virus could carry RNA that, by using reverse transcription, would modify the DNA of the target cells of species members. When this modified DNA starts functioning in all the affected target cells, a member of the first species would metamorphose its physical structure in way needed to alter its instincts in the desired way. If the viral DNA can be inserted into reproductive cells, so the changes become hereditary, then a new species or a genetic variety of the

old species would have been created. This then is the proposed mechanism for the origin of species. The general rule for the transformation of species is:

Species 1 + Virus (2-1) -> Species 2

Virus (2-1) carries the genetic material, created by microvita, needed to transform species 1 into species 2. This transformation could perhaps be carried out by a single virus. Otherwise, two or more viruses acting in succession on a member of species 1 could produce the required changes. The general rule of transformation of species by viruses remains the same. If more than one virus is necessary to transform a species, then the animals or plants acted upon by the first and later viruses would produce transitional forms between species 1 and 2. It must be emphasized that the virus is just an efficient distribution system for new microvita-created genetic material which actually creates the physical transformation, guided by the microvita in the genetic material.

Of course, the metamorphosis in structure required by the collective controlling faculties of a group of animals or plants may not necessitate a completely new species. A smaller genetic variation might bring about a minor change in the expression of an instinct.

In cases of animal, plant or human evolution, where transitional organisms have not been observed in the fossil record, a complete metamorphosis from one species to another may have come from a single virus. In this case no intermediate variations would have been created. Such single-virus transformations would explain the observed gaps in the fossil record which contradict Darwinian theory. Viruses responsible for the species transformation may eventually be found in fossils.

An earlier and currently discredited, but still somewhat appealing, doctrine of evolutionary theory called Lamarckism, "the inheritance of acquired characteristics", comes into a new light in our present theory of the origin of species. Lamarck was a great 18th century French biologist who developed a theory of evolution before the time of Darwin. According to Lamarckism, characteristics of a non-genetic origin, such as a slight increase in the length of a giraffe's neck as it stretched for the leaves of tall trees, could be passed to its offspring. They would thus be born with a slightly longer neck.

All attempts to prove Lamarckism failed, since a genetic change is required for characteristics to be transmitted to offspring. But with microvita-induced and virus-mediated species transformations, genetic changes take place in the organisms themselves, which are actually transformed physically into a new species. If these genetic changes affect the reproductive cells of the organisms, their offspring will automatically be members of the new species too, having acquired their characteristics by genetic inheritance from the parents.

According to our microvita hypothesis, a group of pre-giraffes, finding themselves in a new environment with taller trees, could have been frustrated with their inability to reach their favorite leaves. A prolonged desire to reach the leaves could have caused their collective controlling faculties, their chakras, to attract appropriate microvita. The microvita would create new RNA viruses which would "infect" the pre-giraffes. DNA would be produced in certain target cells in their bodies. This new DNA would encode changes in the pre-giraffe structure, giving them, for example, a longer neck, longer legs and necessary coordinated internal structural changes that regulate their blood pressure. When these changes are incorporated into the reproductive cells, these new characteristics would be passed genetically to their offspring.

Many cases of animals and plants, as well as human beings, transforming their physical structures to adapt to new environments, could be explained in the same way. Evidence that supported this hypothesis would include finding the viruses responsible for such transformations, or establishing

similar transformations of species experimentally with viruses today. A complete proof would use both approaches.

10. HEALTH

Diseases are often said to be caused by viruses, but P. R. Sarkar has a different explanation for viruses.

“People are under the impression that something called a “virus” is the minutest living being. But virus is a vague term; there is in fact nothing like a virus – thus the question of it being a living being does not arise. (7)

“Microvitum is the minutest entity. The collection of microvita forms a carbon atom. As a microvitum is the minutest entity, it cannot have a structure like that of an atom or a solar system. As a microvitum is a singular entity, it has no structure. By nature it is more energy than matter, so it travels and moves through inferences, whereas other entities cannot move through inferences.” (7)

“But these living creatures (microvita) with their mysterious movement create minds and bodies, living bodies in different celestial bodies, and they are, they also destroy minds and physical bodies, or developed or undeveloped corpus, in any corner of this universe.” (1)

“Regarding those (microvita) who are of cruder order and that may come within the scope of microscope, people say, “Give it the name virus”. They say, “This disease is of virus creation, of virus origin.” Like this. But virus is a vague term. The better term will be microvita, and not virus. (1)

“The virus of a diseased man, the so-called virus of a diseased man, not “deceased”, diseased man may move through his sound. They may move through tactuality. They may move through forms, figures. They may move through fluids. They may move through smell. In case of some of the diseases, the disease spreads through smell, smell of the disease.” (1)

Positive microvita can be used to cure diseases.

“When negative microvita devour the positive microvita of a diseased person, then that person dies. Medicines only reduce the pain caused by disease in different parts of the body, and so it is not proper to say that medicine cures a disease. The disease can be cured only when the numbers of positive microvita are increased, and they devour the negative microvita. There are certain persons who can cure diseases merely by touch. The science behind this is also the application of positive microvita.” (7)

Microvita can cause mental illnesses and also help to cure them:

“In another context, I said that various kinds of negative microvita which have, up to now, been called a “virus”, damage human beings. Different diseases take the help of different kinds of tanmātras (sensory inferential waves from matter). From country to country, from planet to planet, and from the far distant frontiers of the universe, these negative microvita carry the seeds of destructive diseases. These varieties of negative microvita also spread mean- mindedness and negative psychic complexes. Similarly, from various planets and distant nebulae, varieties of positive microvita bring pious, sentient thoughts and elevating sentiments.” (16)

11. SOCIETY

There will be many technological and economic changes in society when the microvita age arrives. International commerce may be greatly affected when the quantitative and qualitative differences in chemicals due to their microvita composition is worked out:

Intensive research in microvita will surely bring about radical changes in the realm of commercial transactions. Suppose a certain country is making a huge profit by selling sodium nitrite. Now, if the denomination and the number of the microvita present in the oxygen of the sodium nitrite is decreased or increased in the sodium nitrite factory of another country, then the buyers may not like to buy sodium nitrite supplied by the former country. Naturally, there will be a change in the pattern of international commercial transactions as a result of the production of commodities with the increase or decrease in the number of microvita. (13)

Again, take the case of jute. The quality of jute in the different districts of Bengal varies, although the jute seeds are the same everywhere. In Bengal, all are aware of the fact that there is a clear difference in the quality of jute in the districts of Maymansingha, Jalpaiguri and Murshidabad. The cause is the same in this case also – the varying number of microvita. (13)

Take another case – the case of potato. Even after the use of the same chemical fertilizer, the rate of production and taste of potatoes in all cases are not uniform. Perhaps many persons are not aware of the cause of the difference in the rate of production and taste of potatoes from one place to another. The cause lies in the number and denomination of microvita. The difference in the number of microvita in oxygen accounts for this difference. (13)

There will be major changes in pharmo-technology, biotechnology and pyro-technology:

There will be revolutionary changes in the fields of pharmo-chemistry and biotechnology. A particular object has its particular medicinal value. Take, for instance, the case of copper sulphate. It contains copper, sulphur and oxygen. Any variation in atomic proportions brings changes in the quality and effectiveness of medicines. Changes in the number of microvita bring qualitative change. Intensive pharmaco-chemistry research will reveal the amount of microvita required to produce particular kinds of medical effects, and accordingly a scientist will be able to evolve accurate and effective formulae for various medicines. Naturally, the old and outdated formulae will be discarded. Hence, pharmaco-chemistry is sure to be affected. (13)

It is often found that the same medicine produced by different companies has varying effectiveness. The medicine produced by one company is found to be more effective than the one produced by the another company. Here also variations in the number and classification of microvita account for such differences. (13)

Similarly, microvita theory will also influence pyro-technology. It is noticeable that firecrackers manufactured by one company produce more or less sound than those of another company. The greater the internal movement, the higher the frequency, and as a result the explosive potential is intensified, producing greater sound. The mobility of microvita influences the internal movement. Consequently, there will be great changes in the control and production of highly powerful bombs. And as this is concerned with speed, the very nature and mode of the speed of rockets will be affected. (13)

Even human beings will evolve more quickly in the microvita age:

According to the modern biologist, protoplasmic cells are made of carbon atoms, but in the microvita age the biologist will say that the protoplasmic cells are not made of carbon atoms, rather they are the collective solidified form of innumerable microvita. By controlling the microvita of the protoplasmic cells, big changes can be effected within the human body. Ordinary people can be made extraordinary. Their mental qualities and capabilities can be enlarged by supplying microvita in sufficient quantity. That is to say, the theory of microvita has immense potentialities in introducing numerous changes in human society. By changing microvita, ectoplasmic changes will

come which in turn will bring about endoplasmic change, and thus the mind will be able to control the organism, the physical body, in a better way. (13)

Consequently, there will be remarkable changes in the over-all personalities of human beings. These changes will take place in the internal sphere as much as in the external structure. The personalities of human beings will not be the same as they are now. Due to changes in the nerve cells, a change in the ectoplasmic cells also occurs, and as a result the effulgence of the body changes. In the age of microvita, the appearance of the physical body will change. Human beings will become more psychic than physical, and in the next phase they will become more spiritual than psychic. (13)

Microvita help human civilization develop by bringing civilization-changing new ideas to open-minded thinkers. This was hinted, while not directly stated, by P.R. Sarkar in the following quote:

“What does archaeological history say – has there been any collective influence of positive or negative microvita on this earth or in the entire cosmos? And what is your guess regarding Atlantis, Oceania and Gondwanaland? Answer: Human beings came here one million years ago, but the history of civilization starts from the time of the Rigveda, fifteen thousand years ago. From one million years ago to fifteen thousand years ago – for so many years, nine hundred and eighty-five thousand years, between the Miocene and the Oligocene ages – was human society in a dormant state? Humans invented pictorial letters less than seven thousand years ago. A full-fledged civilization, with the four symbols of advancement – agriculture, the wheel, dress and script – started seven thousand years ago. Is there any role of microvita, positive or negative? It is another question.” (7)

Balanced Use of Positive and Negative Microvita in Individual Life and Society

Both positive and negative microvita can be put to positive use, both in one's own life and with others. When people come to understand microvita, they will also learn how to control them to balance and improve their own lives, and to create a balanced society that is progressing physically, mentally and spiritually:

Now, the question is, how do positive and negative microvita maintain both equilibrium and equipoise in the universal strata – in the physical, physico-psychic, psychic and psycho-spiritual realms?

Microvita have nothing to do directly with the spiritual stratum. Positive microvita equal negative microvita – that is, the sum total of positive microvita equals the sum total of negative microvita. This is so in the entire macrocosm and in individual microcosmic structures. If there is over-utilization of positive microvita during psychic and psycho-spiritual practices, then there will be a shortage of positive microvita for balancing the negative microvita in the physical and physico-psychic strata, because the sum total of positive and negative microvita must balance each other. Thus, human beings should utilize their strength in all the strata. In the physical stratum, utilize the immense power of negative microvita, otherwise the surplus of the negative microvita will become very strong due to accumulation. Good people should not go to the Himalayan caves. Rather, remaining in society, they should serve the society in the physical and physico-psychic strata with the help of negative microvita, and in the psychic and psycho-spiritual strata with the help of positive microvita. If good people neglect the use of negative microvita in the physical stratum, catastrophes are sure to come. Everything will be in pell-mell order. (17)

Will Our Universe Finally Run Down and Human Life Be Extinguished?

The second law of thermodynamics in physics predicts that the universe will eventually run down, leading to the final extinction of all life in our universe. If true, this would lead as well to the final extinction of humanity, and all its history, accomplishments, and values. Such a dismal prospect has discouraged and depressed many thoughtful people.

But Prabhat Ranjan Sarkar, besides proposing a new consciousness-based paradigm for science and technology, has also offered hope for humanity facing the scientifically-predicted fate of a dying universe. According to him, the future of humanity is in fact very bright. Even if parts of the universe experience so-called thermal death, this will never happen to the universe as a whole. Human ingenuity, as well as the benevolence of the Supreme Consciousness (probably brought by positive microvita) will not allow this to happen. Here is a quote from P. R. Sarkar to this effect:

“Due to the ever-increasing progress and the resultant greater psychic clash in the vast Cosmic body, the intensity of the mutative vibration increases. Hence, it is not possible for all parts of creation to have a uniform temperature or a simultaneous death. When the energy of the material structure gets concentrated in its center due to extreme crudity, *jadásphoṭa* (a huge explosion of matter) occurs. This releases vast amounts of energy within the universe, thus maintaining the thermal disparity of the universe and the continued flow of the Cosmic imagination. That is why the fear of some scientists that the universe will meet a thermal death is baseless. Partial thermal death may occur in part of the universe, but the total thermal death of the universe will never be a reality.” (18)

12. SPIRITUALITY

The Soul in the Materialist Paradigm and in the Cosmic Cycle Paradigm

An individual soul can be defined as something non-physical that gives human beings their sense of individuality, self-worth and connection with a Higher Self or God. In the materialist paradigm, the mind and soul are expressed only through the activity of the physical brain. They only exist when the physical body is alive. When a person dies, their brain also dies, and there cannot be any surviving mind, consciousness or soul. The idea of a soul is considered to be a relic of old superstitious religions. Materialistic scientists say that this old and obsolete ideas like free will should be discarded as science advances and explains everything by materialism.

But in P. R. Sarkar’s Cosmic Cycle, both matter and mind are different expressions of Supreme Consciousness. When an organized physico-chemical structure shifts some of its attributes from crude-physical qualities to less-crude mental qualities through the action of microvita, a primordial mind is formed. Here Supreme Consciousness has transformed from matter-Consciousness into mind-Consciousness. All living beings and also inanimate beings within the Cosmic Mind are witnessed collectively by the infinite Consciousness of the Cosmic Mind. This infinite Consciousness is the Supreme Soul or Supreme Self of the Cosmic Mind or Macrocosm. And that infinite Supreme Soul is also the witness of, and has an individual, personal relationship with each living being or microcosm, as well as with each inanimate object. The association of the Supreme Self with the mind of each living being creates a reflection or association of the Supreme Self on each mind. It is like the moon creating reflections of itself in many different ponds. There is one moon but there are many moon-reflections. Similarly, the associated reflection of the Supreme Soul (the *Paramatman*) on each mind is the individual soul (or *jīvatman*) of that living being. The clarity of the individual soul (the reflected Supreme Soul) is more when the individual mind is more calm and pure, and therefore a better reflector of the Supreme Soul. The individual soul of a living being is actively involved with all the thoughts and feelings of the individual mind of a living being. At the death of a human being or other living being, both the individual mind and its associated individual soul separate from the body but remain existing together. The Supreme Creative Power of Consciousness then guides the mind and soul to an appropriate new physical structure to associate with in order for the mind to express its accumulated karmic reactions from previous lives. A new life is begun with the new body and the previous mind and its soul.

But when the mind is sufficiently purified and advanced, another life is not required. The spiritual goal of life can be achieved:

“What is Yoga according to Tantra (spiritual practice)? Tantra defines Yoga as “Saṁyoga Yoga Ityukto Jīvātmā Paramātmānaḥ”. The unification of Jīvātman (the individual soul) with Paramātman (the Supreme Soul or Supreme Consciousness) is termed Yoga. What is Paramātman and Jīvātman? The moon in the sky is like Paramātman and its reflection in the pond is Jīvātman. How to unify Jīvātman with Paramātman? When the moon in the sky reaches the moon in the pond, then there is oneness between the two. The reflection of Paramātman on unit mind is Jīvātman. When the mind reaches Paramātman both Jīvātman and Paramātman become one. This is the explanation of Yoga according to Tantra.” (19)

and

“Practically the individuality is always its own characteristic self (soul) and it is certainly characteristically free. Ciarāa Sahābe Mukal (that is, characteristically the microcosm is an emancipated entity). But we cannot catch the full reflection of Brahma (Supreme Consciousness) on the unit-Mahattattva (I-feeling). For this Cosmic Consciousness is not at fault, the fault lies with the plate of our unit-Mahattattva. If the reflection of just a foot of an elephant is caught in a small mirror instead of its full figure, it will look like a pillar in that mirror. Now which of the two is to blame for this wrong impression of the elephant in the mirror – the elephant or the smallness of the mirror? So Sādhakas (spiritual practitioners) have to increase the dimension of the plates of their Mahattattva, and also, they will also have to make it scrupulously clean, so that they may reflect the entire universe in themselves. Partial reflection makes the world appear to be disjointed and heterogeneous. But when you will be able to see this heterogeneous world fully on your mental plate, the world will not any more appear to you as the world, but only as the product of your imagination. Then, possessed with such a vast mind, you will further realize that you are not “you” any more - your “you”-hood is being absorbed in the speckless, super-white effulgence of that Empyrean Splendor.” (20)

When human beings don't reach their final spiritual goal after death because their minds are distracted towards other things, they become luminous bodies or bodiless minds, which are subtle types of microvita:

“In ancient times, regarding the singular or collective structure of these microvita, the ancient rśis [sages] say that they're of seven types, seven species. They gave them the name: yakśa, gandharva, vidyādhara, kinnara, siddha, prakṛtiliina and videhaliina according to the nature of their subtlety or nature of their crudeness.” (1)

“Those microvita which do not come within the scope of a microscope but come within the scope of inferences are known by their collective form and are called yakśa. (21)

“These yakśas are one of the seven types of devayoni (the others are gandharva, kinnara, vidyādhara, videhaliina, prakṛtiliina and siddha) which are the collective names of different categories of microvita.” (21)

“Only those human beings who were elevated during their lifetimes become devayonis [luminous bodies] after they die. On the other hand, disembodied souls attain the status of pretayonis until they are reborn in other forms. That is, when people with many demerits die, they become pretayonis according to their defective mentality. These pretayonis are divided into several categories – durmukha, kabandha, madhyakapāla, mahākapāla, brahmadaetya or brahmapishāca, ākāshipreta, and pishāca.” (16)

So microvita are not only involved in the normal lives of human beings, but in their afterlives as well, up until human being reach their final spiritual goal—oneness with non-qualified Infinite Supreme Consciousness.

Spiritual Effects of Microvita

“While following the path of neo-ethics (P.R. Sarkar’s universal ethical approach), human beings will attain enormous progress in the spiritual sphere with greater speed. With the help of non-carbonic pabula they will sharpen their psychic penetration within inter- and intra-atomic and molecular space. With the help of microvita they will be able to powder down their ectoplasms and transform them into cognitive faculto-factors.” (9)

“The majority of people today do not know the technique of using microvita. The Universal Entity, sitting in one place, has been using microvita to accelerate the spiritual growth of individuals in different celestial bodies in different ways. Only that Supreme Entity who is conversant with these techniques and can teach them to individual spiritual aspirants is the Supreme Guru. He keeps all within His contact, and with the help of microvita, elevates all spiritually.” (9)

Microvita as Divine Grace

Many religious traditions speak of divine grace received from God, which gives human beings deep spiritual experiences and accelerates their spiritual progress towards oneness with God. Is divine grace real? Is it available to all? According to P. R. Sarkar, divine grace is always showering on everyone, but most people do not experience it:

“Nobody is unimportant, nobody is insignificant. The thing is that somebody realizes that grace and somebody does not. Why does somebody realize the grace and somebody not? The reason is that while moving along this path around the Supreme Nucleus in the cosmological arena, if one holds the umbrella of ego over one’s head, what happens? Suppose it rains and you are holding an umbrella over your head, what happens? Will you be drenched by the rain? No. If you want to be drenched you will have to remove the umbrella. Similarly, if you are moving around the Supreme Father and holding up the umbrella of ego, you won’t be drenched by His grace, and if you remove that umbrella of ego, you will be drenched by His grace and you will feel that His grace is for you. (22)

What is this Divine Grace that is available to all?

“You know that divine grace does not depend on any logic; it depends only on the whims of Parama Puruśa (Supreme Consciousness or God). If Parama Puruśa is satisfied with your intuitional practice, with your sincere zeal, then He may bless you so that you can easily reach that Supreme Stance. But if He does not bless you, then you may attain the goal in theory, but not in practice. Thus, everyone will have to seek His blessing in order to reach the goal. We say that spiritual progress is effected by the application of positive microvita; but in fact even microvitum is nothing but the grace of Parama Puruśa (God). Let human beings perform virtuous deeds, practice meditation, serve the suffering humanity, and in return they will attain His grace.” (23)

So divine grace is due to the action of positive microvita.

Divine grace is associated with the movement of microvita to the highest plexes (chakras) in the brain.

“The highest point up to which negative microvita can function is the physico-psychic plexus (fifth chakra--at the throat level), but with the application of some force they can be raised up to the lunar plexus (sixth chakra--between the eyes). This raising is called rśtí or ruśtí. The lunar plexus is the highest point of positive microvita, but if positive microvita are raised above this point, it is called krpá (grace). That is, raising positive microvita from the lunar plexus to the occult plexus (lower side of seventh chakra) is called krpá. And raising them from the lunar plexus to the pinnacled point of human glory (seventh chakra) is called karuńá. Without krpá there cannot be karuńá, there cannot be any galloping jump. Raising negative microvita above the psycho-physical plexus is rśtí. You should always try to avoid rśtí and always try to receive the glamor of krpá or karuńá.” (24)

Microvita can also be spread through the hand gestures (mudras) of a spiritual master

“During the last Vaeshákhii Púrñimá at Ananda Nagar, there were many spiritual aspirants who wanted that the speed of our progress should be accelerated regarding the establishment of Ananda Marga (the Path of Bliss movement) on this planet. Did you mark that after Dharma Maháçakra (DMC -- a biannual spiritual gathering with the guru) the speed has accelerated? This is the effect of positive microvita through these two mudrás (the two special hand positions – called varábhaya mudra -- of the Guru after the DMC discourse). (24)

Restoration of hearing by positive microvita emanated by certain hand gestures (mudras)

If a deaf person sincerely wants to hear what the Sadguru (spiritual master) is saying, the positive microvita radiated through these two mudrás are sure to help--they will certainly help that person. (7)

Suppose the Sadguru is saying something, and a deaf or dumb man wants to hear it, but cannot. If he concentrates the mind on barábhaya mudrá (the two special hand positions – called varábhaya mudra -- of the Guru after each Dharma Maha Chakra discourse) there will be the direct effect of positive microvita on the auricular or other nerve cells and also on the controlling cells, and it may be that all of a sudden he may get back the power of hearing. One should look towards these two mudrás and not to anything else. Microvita are radiated through these two mudrás. This is the inner secret. (7)

Conclusions

There is a great need for a new and more expansive paradigm to guide scientific research and technological progress in the coming years. The materialist paradigm of the past 500 years permitted rapid scientific and technological progress in a limited sphere—the sphere of control of matter, energy and information. But knowledge about the mind and the higher capacities of human beings that could help create a society and civilization of highly educated, creative and enlightened human beings, has lagged far behind. A new scientific paradigm based on the primacy of Supreme Consciousness and deeper understanding of the Cosmic Mind and the cosmic cycle of creation, could bring further scientific discoveries and technological applications to the physical and biological sciences. It could also lead to an explosion of knowledge and understanding of the higher capacities of human beings in a way that benefits all of humanity as well as the rest of the animate and inanimate worlds.

Such highly-needed scientific developments and technologies have remained untapped and even suppressed by the current materialist paradigm and its supporters. This has led to harmful effects on society due to applications of science and technology for mass warfare and the development of authoritarian and totalitarian societies. There has not been the renaissance of material prosperity for all and a resulting freedom from political, economic and social oppression for all humanity and human culture, that was promised by the prophets of materialistic science and technology. Instead, despite the abundance of food and material goods for much of society, those benefits did not reach all humanity, and the minds of many people, rich and poor, are still enchained by social, economic, religious and political dogmas. At the same time there has been a big rise in mental and physical health issues that are not being solved by a purely materialist approach to science and medicine. Rather the trend is in a downward direction. The materialist approach has also led to a high concentration of wealth and power in a few hands, with no indication that this concentration of wealth and power will be used benevolently for all humanity—the trend seems to be in the opposite direction. A new scientific paradigm based on microvita and consciousness-before-matter is needed to bring a new era of scientific, social and spiritual understanding.

Summary

A new paradigm for science, based on the primacy of consciousness over the material world, is greatly needed. A shift from the materialist paradigm to an adequate consciousness-first paradigm is very likely to usher in a new scientific era having better understanding of Consciousness, the Cosmic Mind, and microvita as the currently mysterious agents of cosmic evolution. This new scientific paradigm and worldview will explain many physical and mental phenomena scientifically that cannot be explained with the materialist paradigm. Such a paradigm shift could bring a revolution in new scientific discoveries and technological applications that could lead to a new renaissance in human society, with a rebirth of intellectual and intuitional progress as well as economic, social and spiritual freedom. It could lead to the creation of a new ways of organizing society to solve its socio-economic problems that also greatly increase individual human freedom and happiness, while helping satisfying humanity's desires for a better world for all.

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