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## MICROVITA

*Silver Jubilee Year*

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**सम्पादकीय .....**

### माइक्रोवाइटा सिद्धान्त - रजत जयन्ती वर्ष

धन्य थी, 31 दिसम्बर 1986 की वह रात्रि, जब श्री प्रभात रंजन सरकार ने प्रथम बार इस पृथ्वी पर मानव कल्याण के लिए माइक्रोवाइटा सिद्धान्त को दिया। आज यह सिद्धान्त अपने रजत जयन्ती वर्ष में प्रवेश कर चुका है। 25 वर्ष के इस तरुण की ओर किसी ने आँख उठाकर भी नहीं देखा। लगता है यह नूतन अभिनव अणुजीवत का सिद्धान्त महाशून्य में खो गया है। पश्चिम में तो इसकी प्रतिध्वनि सुनाई देने लगी है, परन्तु पूर्व में अभी इसका अरुण आलोक अभिप्रकाशित नहीं हुआ है। इसी आड़ोलन की प्रवाह शक्ति को तीव्रतम गति देने के लिए सोसायटी फॉर माइक्रोवाइटा रिसर्च एण्ड इन्टीग्रेटेड मेडिसीन (स्मरिम) का जन्म हुआ है जिसका उद्देश्य हर हालत में इस सिद्धान्त को जन चेतना की धारा में उत्सरित कर इस धरा की प्रत्येक चेतन-अचेतन सत्ता को परम सत्ता की ओर प्रतिसंचर धारा में तीव्रतापूर्वक गतिमान करना है। स्मरिम का यह यह नन्हा सा शिशु अपने कर्तव्य में कितना सफल होगा यह तो समय ही बतायेगा परन्तु पिछले तीन वर्षों के क्रियाकलापों ने माइक्रोवाइटा शब्द को जनसाधारण की जुबाँ पर प्रतिष्ठित किया है। प्रभात संगीत द्वारा माइक्रोवाइटा को घनीभूत स्थिति में आकर्षित कर वातावरण को भक्तिमय बनाना, सेमल और पंचवटी के अन्य पौधों को विभिन्न स्थानों पर लगाकर माइक्रोवाइटाजन्य परिवेश को बनाना, माइक्रोवाइटा औषधियों द्वारा पीड़ित मानवता की सेवा, सामुहिक मानसाध्यात्मिक अनुशीलन द्वारा माइक्रोवाइटा के माध्यम से व्यक्तिगत और सामुहिक जीवन में

सफलता, माइक्रोवाइटाजन्य हरीपरिमण्डल निर्माण कर भक्ति परिवेश की प्रतिष्ठा, विभिन्न स्तरों पर इस विषय पर चर्चा और परिचर्चा द्वारा इस सिद्धान्त का प्रचार प्रसार; वैज्ञानिक, बौद्धिक और शिक्षाविदों में बोमरिम के माध्यम से इस सिद्धान्त को प्रचारित और प्रसारित करना तथा इस सिद्धान्त के आधार पर विभिन्न क्षेत्रों में अनुसंधान कार्य आदि के द्वारा स्मरिम अपने लक्ष्य की ओर बढ़ रही है। इस रजत जयन्ती वर्ष में सोसायटी के सभी सदस्य मिलकर कुछ ऐसा कार्य करने का संकल्प लें कि आने वाली पीढ़ी कह सके कि इस भारत भूमि पर कुछ ऐसे भी लोग थे जिन्होंने श्री प्रभात रंजन सरकार के इस अति-महत्वपूर्ण, गूढ़, रहस्यमय सिद्धान्त को जनसाधारण में इतना लोकप्रिय किया कि दार्शनिक, विभिन्न स्तरीय वैज्ञानिक और बौद्धिक जगत के अति विशिष्ट लोगों ने भी इसे चर्चा, अनुसंधान और व्यावहारिक अनुप्रयोग का मुद्दा बनाया। जगत कल्याण की भावना से जो कार्यरत हैं उन्हें अवश्य ही इस दिशा में त्वरित कार्य करना होगा, अन्यथा जैसा कि श्री सरकार ने आगाह किया है कि वर्तमान समाज की अनेक प्रकार की समस्याओं का समाधान सही ढंग से नहीं हो पायेगा। आइये, हम सभी मिलकर हर दिन की प्रथम रश्मि के साथ अणुजीवत सिद्धान्त का नूतन प्रकाश फैलायें, जीव-जगत के कल्याण की भावना से सभी को अभिभूत करें और इस धरा को ऐसे माइक्रोवाइटाजन्य तन्मात्राओं से परिपूर्ण कर दें कि यह धरती सही अर्थों में स्वर्ग बन जाए।

— डा. एस. के. वर्मा

*"Microvita research can be done in physical, chemical, medical, medicinal and psychological laboratories. For microvita research, you will have to study human psychology thoroughly."*

—Shrii P. R. Sarkar



## Terms used for medical practices: confusions and clarifications

**Dr. S. K. Jain\***

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While reading through some papers on medicinal plants, one comes across certain words or phrases, which can leave the reader less informed and more confused. These phrases or words include Indigenous Medicine, Traditional Medicine, Alternate Medicine, Integrated Medicine, Indigenous System of Medicine, Traditional System of Medicine, Ethno-medicine, System of Medicine, Folk Medicine etc.

In our country several systems of medicine, as also certain other practices and procedures are prevalent. The well-known systems are Ayurveda, Yunani, Siddha, Homoeopathy and Allopathy. A system of medicine (SM), what I understand, should fulfill all the following criteria:

- There are written texts on all aspects of SM, such as on human and animal body, its parts, their structure and functions, causes of malfunctioning, their diagnosis and management etc.
- There are recognized institutes imparting theoretical and practical education in all aspects of that SM and authorized to award degrees.
- After acquiring prescribed levels of education students are awarded, degrees of various levels like BAMS, BUMS, BHMS, MBBS, MS, MD, DM, Ph.D. etc.
- The practitioners of the SM are registered by their respective agencies.

Several other kinds of practices and procedures are currently in vogue. They do not (or fully do not) meet the criteria of SM. For example, Acupressure, Acupuncture, Reiki, Naturopathy, Magneto therapy etc. They are not being SM, does not in any way reflect on their efficacy in one or more cases. Some terms which are in common use are elaborated below:

### **Indigenous Medicine (IM)**

The practice and procedures employed by healers in a certain specific region, prevalent and popular among the local populations is known as IM. This region could be small or large like whole Indian region.

### **Traditional Medicine (TM)**

As the word indicates, the knowledge about materials and procedures employed have descended over generation. Today, this can be considered almost synonymous with Indigenous medicine of any region.

### **Orthodox Medicine**

Some critics call Indian Traditional Medicines (TM) as Orthodox Medicine. This is often disliked and challenged by practitioners of TM. Orthodox really means any ideology or act based on religious and trust worthy Doctrines. The Indian Traditional System have their origins in principles and practices started by 'Rishis' and sages; hence orthodox is a shade better term than the word traditional, and should not be considered objectionable or derogatory by practitioners of SM. Interestingly, the modern system of healthcare is also being refereed to as orthodox medicine and other therapies as unorthodox medicine'.

### **Folk Medicine**

Management of human or animal diseases or injuries by products or practices based purely on knowledge, which has been inherited through oral instructions or acquired by own observations and trial and error method. Such practices are usually endemic, restricted to small communities or regions. Any commonality between such practices among two or more communities is usually accidental or dependently arisen by the principle of "necessity is the mother of invention". It is mostly undocumented, or recently documented by external researchers. Ethnomedicine is almost synonymous with folk medicine.

It should interest readers that Folk Medicine like (SMs) is also not static or stagnant but dynamic. It is influenced by factors like change in occupation, environment or new ailments among the folk.

In Indian region (i.e. Indic) the Indigenous / Traditional medicine can include two broad categories:

- a. Indian Systems of Medicine like Ayurveda, Siddha etc.
- b. Other medical practices outside the systems like Naturopathy, Yoga, Folk Medicine, Ethnomedicine and Grandmas' recipes.

### **Alternate (-ive) Medicine (AM)**

In most developed countries particularly in the West, Allopathy is the most accepted SM also referred to as conventional

*"Doctors are mainly concerned with negative microvita..... Doctors are not acquainted with many diseases that are yet to come to earth. If doctors can find out the faculty of negative microvita, they can prevent attacks of negative microvita before they occur- before they reach the planet."*

*-Shrii P. R. Sarkar*

medicine, scientific medicine and modern medicine. Till few decades ago; they did not give Indian, Chinese or any such Traditional System of Medicine worth even a serious thought. Vested interests of practitioners and even more so of the multinational Pharmaceutical companies (MNC) dismissed their utility. It may surprise some readers that MNCs established research labs to discredit these Asian SM and published papers with title like Hazards of Herbal drugs. Various factors (now too well known to discuss here) compelled them to think about these Asian SMs. However, as was natural, many drugs based on herbs eventually proved more effective, safe and less expensive and started gaining acceptance in West. The SMs and practices other than allopathy were given a general term 'Alternate medicine'. In author's view, use of this term of Alternate Medicine for Asian SM at least in Asian journals is inappropriate. Many preventive or curative drugs of Asian SMs are available in West in stores under the banner, Green Medicine, Vitamin World, Peaceful Pond Remedies, Supreme Health, Health Foods etc.

### Complementary medicine

The term 'Complementary medicine' embraces a wide range of therapeutic practices and diagnostic systems that stand separate from or in some cases opposed to conventional scientifically based modern, Western medicine (Conventional medicine, Modern medicine or Orthodox medicine). Previous terms used to describe these therapies (Complementary medicine) have included fringe medicine, unconventional medicine, unorthodox medicine, natural medicine and the most widely used alternative medicine. Complementary medicine implies that the therapies are seen as supplements to orthodox medical treatment that enhance and strengthen the over all cure offered to sick people<sup>1</sup>. In 1998, the National Center for Complementary and Alternative medicine (NCCAM) was established at National Institute of Health (NIH). The NIH classified the Complementary and Alternative medicine into five major categories<sup>2</sup>:

1. Alternative medical systems (e.g. Traditional Oriental Medicine, Acupuncture, Ayurveda, Naturopathy, Homocopathy, Native American healing, Tibetan medicine etc.)
2. Mind-body interventions (Meditation, certain uses of hypnosis, Dance, Art and Music therapy, Spiritual healing and prayers)
3. Biologic-based therapies (Herbal medicines and dietary supplements, special diets and orthomolecular medicine)
4. Manipulative and body-based methods (Chiropractic, Massage, The Feldenkrais method, other 'body work' systems and aspects of Osteopathic medicine such as craniosacral work)
5. Energy therapies (Reiki, Therapeutic touch, Qigong, Magnets and other methods of affecting the 'Bio-electric field' of the body)

### Integrated Medicine (IM)

Almost all reasonable people have understood that there are certainly some elements of merit in all systems and other practices of medicine. Careful and well balanced use of properly understood and effective elements of more than one system can be beneficial in several situations.

Integration is not merely addition of two or more systems. If a heart patient is on Allopathic Medicines, just addition of bark decoction of 'Arjuna' (*Terminalia arjuna* W. & A.) tree used in Ayurveda is not advisable. Researchers at many institutions of pharmacy have proved beyond doubt that use of some herbal products like Black pepper (*Piper nigrum* L.) can multiply manifold the potency of other drugs in body. The consequences need no elaboration.

Careful integration of various SMs or practices is perhaps the most intricate question in management of disease. The researchers have to know the philosophical basis of practices involved in integration. Modern technologies of diagnosis through pathological, radiological or other investigations are part of modern medicine. Their use by a *Vaidya* or *Hakim* is not integration.

The central theme of therapy however, should be treatment of disease and betterment of the patient and not to give importance to any pathy or method. Judicious use of all the pathies to keep the patient healthy in physical, mental and spiritual spheres would be considered as the best method of treatment.

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### *\*About the author*

**Dr. Sudhanshu Kumar Jain**, the 'Father of Indian Ethnobotany', has published 42 books and over 325 research papers on taxonomy, ethnobotany, economic botany, conservation and medicinal plants. He has described 24 new plant species and 20 plant taxa have been named in his honor. He is the first Asian to receive the Distinguished Economic Botanist Award by the Society for Economic Botany (U.S.A.) in 1999. He has retired as Honorable Director of Botanical Survey of India (BSI) and received many prestigious Awards and Fellowships. He has been selected as honorary life member of SMRIM, Udaipur. Dr. Jain, an 'Institution', is a 'busy young researcher, highly engrossed in his studies and innovations today at the age of 85. He can be contacted at +91-522-2235474 or at 26 A, Avas Vikas Colony, Mall Avenue Colony, Lucknow-226001, INDIA.





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## The origin of physical and biological forms (Part-II)

### 4 - Combining Bipolarity and Cosmology

If it will be accepted that evolution is not a part of Darwinism, it then needs to be accepted that Darwinism will be part of a new evolution theory. Bipolarity, which was discussed before as the underlying principle of everything in the universe, can only start from the very beginning of the universe, the Big Bang. A theory of the Evolution of the universe also needs to clarify what are the progressive stages during the first phase of evolution, what takes place at the nadir of the Cycle of Creation (Figure 2.1) and what are the first steps of biological life on the path of evolution.

As it was mentioned before:

- Between  $t=0$  and  $t=+10^{-43}$  s (Planck time) the laws of physics did not apply, so we can do little more than speculate about the then conditions.
- Between  $t=+10^{-43}$  s and  $t=+10^{-6}$  s at a temperature of  $10^{32}$  K, quarks were born.
- Between  $t=+10^{-6}$  s and  $t=+3.10^{-5}$  s at a temperature of  $10^{13}$  K, the Universe was filled with protons, neutrons, neutrinos, photons, electrons and anti-electrons.
- Between  $t=+3.10^{-5}$  s and  $t=+1$  s at a temperature of  $10^7$  K, protons and neutrons unite into nucleons.
- Between  $t=+1$  s and  $t=+3$  minutes at a temperature of 4000 K, the nucleons of He, De, Li and Be were formed.
- Heavier elements, beginning with Carbon, were formed much later and in different situations.

The New Cosmology does not mention the very first era within the laws of physics, immediately after Planck time. The formation of particles will have been preceded by a period in which the initially infinite wavelengths with pure Energy rapidly decreased<sup>1</sup>. The four, -not five- forces of nature, their fields and force particles originated after Planck Time. During Big Bang Nucleosynthesis (BBN) -- roughly the very first 3 minutes, -- quarks and later protons and neutrons, all components of nucleons, were formed. Lifetime of a free quark is  $10^{-23}$  s, of a free neutron 15 minutes, of a free proton  $\infty$  while the lifetime of a nucleon is  $1.8 \times 10^{30}$  years. Lifetime of a photon is  $\infty$  and that of an electron  $\geq 4.6 \times 10^{26}$  years. Photons and electrons also originated in the same era, but not yet as free particles, because their role in nature was only reached after another 370.000 years, at a moment called 'recombination'. Photons decoupled from matter, in this way becoming free photons<sup>2</sup>. The energy of photons decreased to such an extent that they no longer interacted with the protons and electrons. After the departure of photons the electrons could reach their unity with the H, He, De, Li and Be nuclei and complete atoms were formed<sup>1</sup>.

After looking at philosophy, physics and cosmology as more or less separate subjects, the next effort will be to investigate what these three fields of knowledge have in common. This effort will widen our horizon and will help us to discover whether these three disciplines follow their own more or less separate paths in different directions or whether their paths run fully or partly parallel with cross connections. The approach of Shrii P.R. Sarkar, which is the foundation of this article, is to look at the world with two eyes simultaneously: one directed at metaphysics and one at physics, both guided by a free, rational and yet empathic, mind. In "Eternal dance of Macrocosm", Bhaktavirya Townsend<sup>3</sup> made a serious and inspiring effort to unite the two sides of reality, however without including the insights of the New Cosmology. But, in order to understand the reality of physical, biological and other subtle forms of life at least a basic understanding of cosmology is essential. In table 1, the various essential ideas of physics and philosophy have been brought together. It is beyond the limitations of this article and this magazine to explain in detail the characteristic elements and their suggested relations. One subject certainly does need at least some clarification: the nature of atoms, their position in the Cycle of Creation and their relation to the five elements, the five fundamental factors of Eastern, and to a certain extent also of Western philosophy.

"The very start of the animated stage is the beginning of the process of *Prati-Saincara*<sup>4</sup>. The crudest solid is the final stage of *Saincara*<sup>5,6</sup>. The crudest solid is the final stage of the first phase in the Cycle of Creation, which is the nadir of the cycle of Cosmic Evolution. As such it is the ending of a phase. But all stages of cosmic evolution can only be connected, so each stage is not only an end but also, and at the same time, the beginning of the next stage. It has to speak two faces, one directed at the past and one directed at the next evolutionary stage. Thus it can also rightfully be said that solid factor is the end of the first, as well as the very start, of the second phase of evolution, of life. So its proper position is exactly centric at the nadir of the Cycle of creation, rather eccentric at the end of the first or the beginning of the second phase.

Indian philosophy, starting with *Samkhya*, mentions 'solid factor'<sup>7</sup> and so does Shrii P.R. Sarkar in his writings, but what is a solid factor? Is it rock? But how can rock directly be the start of life? Presently biology places a potential start of life under water, in marshes, the sea, or lakes. So rock as solid factor clearly poses a conflict. Moreover, when a human being is in a normal state of mind no subatomic particle can be perceived by the senses. For instance our physical ears cannot hear the sound of 'Om', which belongs to the very first stage of the first phase, and quarks cannot be seen with our eyes. We clearly do not perceive nucleons, photons or electrons directly. Yet we can hear, touch, see, taste and feel. So, we do perceive, but only 'the reflections of the original vibrations on a cruder factor.' Everything we perceive with our senses is because of the reflection of electro magnetic waves reflected by atoms to our body. Odor is caused by the reflection of tiny little atoms in inside our nose. If atoms are accepted as solid factor all at once many questions are answered. We cannot perceive subatomic particles, but if atoms occur in big enough quantities, we can perceive them. Atoms cannot really be accepted as a living material and as such as the start of life, but they can be accepted as the foundation, the very start of life. Without the existence of solid factor, atoms, life cannot take shape, cannot take form.

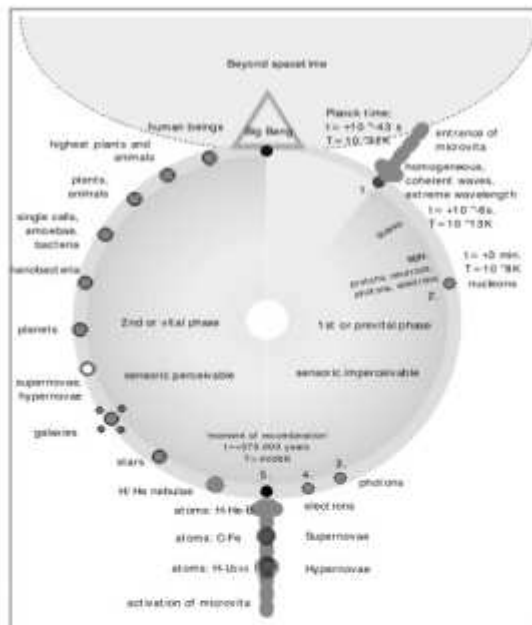


Fig.2.1 : Cycle of Creation and Cosmology

Table 1 : The philosophy and physics - five fundamental factors<sup>8</sup>

Perception	Fundamental factor	Tanmatras	Perception	Categories	Physical properties
Imperceptible by senses	<b>-1- Ethereal factor</b>	<i>Shabda</i>	I sound	main category	homogeneous waves with extreme wavelength
				subcategory	the vacuum field of energy, virtual particles
				force of nature	gravitation
	<b>-2- Aerial factor</b>	<i>Sparsha</i>	2(+1) touch	main category	heterogeneous waves with short wavelength; electric charge, spin, weak and strong interaction, charge and mass
				subcategory	quarks, protons, neutrons and nucleons
				force of nature	strong and weak nuclear force
	<b>-3- Luminous factor</b>	<i>Rupa</i>	3(+2+1) form	main category	heterogeneous waves with short wavelength and spin
				subcategory	photons
				force of nature	electromagnetism
	<b>-4- Liquid factor</b>	<i>Rasa</i>	4(+3+2+1) taste	main category	heterogeneous standing waves with short wave - length; electric charge, spin, weak interaction, mass.
				subcategory	electrons
				force of nature	electromagnetism and weak interaction
Perceptible by senses	<b>-5- Solid factor</b>	<i>Gandha</i>	(5)+4+3+2+1 odour	main category	combination of all previous four factors
				subcategory	atoms
				force of nature	all forces are included all human perceptions are transmitted by the electro-magnetic force

Without going into detail here it is interesting that the fifth factor knows five basic odors: camphoric, floral, ethereal, musky and minty (putrid and pungent may be a combination of taste and smell). The fourth factor has four different tastes: sweet, salty, bitter and sour, the third factor has three components: red, green and blue; the second factor has only two: weight/pressure and temperature, while the first factor only has one: pitch.

During the very first period of our universe,  $10^{-35}$  seconds called Plank time, the Cosmic Mind came into existence and in it microvita were born. After this very first era microvita entered our universe, but because the temperature was immensely high they could not yet become active and hibernated until the moment of recombination. Thus, all subatomic particles were developed without interference of microvita. The very first time microvita became active was during the construction of atoms. Once I was asked: "So photons are nothing but pure positive microvita, is it not?" If that were true the best thing we can do is go to the beach, put off our clothes and wait for enlightenment. The opposite will happen: we will end with a physical sunburn and psychic frustration. Microvita do travel along electromagnetic waves, but need a favorable condition to be attracted to. They can only exert their positive influence if the condition is appropriate. A beach is not automatically such a favorable condition.

### 5 - Morphogenesis and microvita

As it was explained before, subatomic particles are a blending of energy and consciousness, with energy clearly expressed and consciousness dormant. Energy is a blind force, does not have intelligence, cannot choose an evolutionary direction, does not have the capacity of transmutation or transformation and cannot be creative. But in the universe, in nature, in living beings as well as in evolution, such an immense variety of forms can be observed that it becomes difficult to deny the existence of creativity as a catalysing agent in the birth of new forms. In 'Creative evolution', Henri Bergson (1859-1941) called this natural creative impulse 'élan vital'. The organicists Gurwitsch (1874-1954)<sup>9</sup> and Weiss proposed morphogenetic fields. Organicism represents the idea that life can best be understood by understanding it as an organic whole. Biologist Hans Driesch (1867-1941) brought new life to 'entelechy', a mind-like life force that is non-spatial, intensive, and qualitative rather than spatial, extensive, and quantitative<sup>10</sup>. Rupert Sheldrake (1942) drew an essential conclusion regarding his closely related hypothesis of formative causation: "(it) accounts for the repetition of forms, but does not explain how the first example of any given form came into being. This unique event can be ascribed to chance, or to creativity inherent in matter, or to a transcendent creative agency. A decision between these alternatives can be made only on metaphysical grounds and lies outside the scope of the hypothesis".

The first standardised complete and new forms from the factory of the Universe are atoms. What force or agent caused the unique form of atoms? Newton realized that a force is an abstract concept. It is beyond sensory perception, but its effect can be predicted, experienced and calculated. Force fields of matter-energy are uniform and relatively simple; they and their particles are not intelligent or creative, are mechanistic and can only perform one straightforward action. They cannot be the creative catalysts that create and recreate new forms. What about randomness? Whatever neo-Darwinism says, randomness is not really and efficient procedure, it requires huge

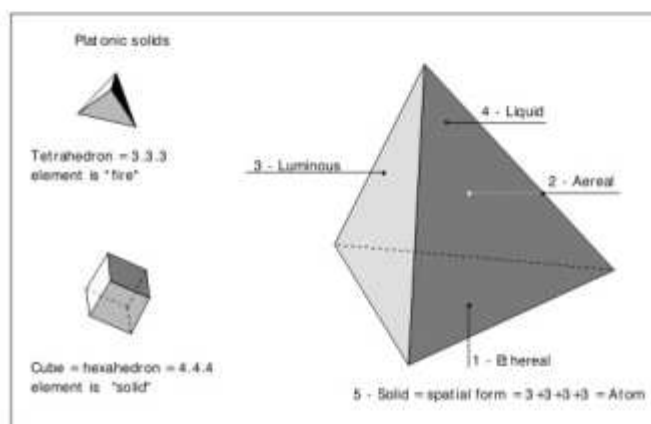


Fig.2.2 : Solid factor

*"Both atoms and microvita have subtler and cruder portions. The portion which is closer to idea is subtler and the portion which is closer to matter is cruder. For studying the cruder portion, physical laboratories are necessary. For studying the subtler aspects, spiritual practices are necessary."*

*-Shrii P. R. Sarkar*

amounts of time. A transcendent entity, God, does give shelter, but not an explanation. What could give rise to the form of atoms is a field of tiny little, creative field particles, equipped with both non-intelligent energy, as well as intelligent consciousness. The possibility that Sheldrake mentions: 'creativity inherent in matter' comes close to this idea. Shrii P.R. Sarkar suggests the existence of small living entities, 'microvita' that "cause the creation of newer carbon atoms"<sup>11</sup> and "then create unicellular life and sometimes, somewhere, multi-cellular, heterogeneous life too"<sup>12</sup>. These creative agents that he called 'microvita' function as catalysts in the genesis of form. "Carbons and non-carbons both get their atomic structure from microvita"<sup>12</sup>.

The word 'micro-vitum' in singular, and 'microvita' in plural, is related to their most characteristic field of action: 'vita' (Lat.)

meaning, 'life'. The size of an atom is about 1 nanometre; the size of a cell is  $\geq 1$  micrometer. Despite the fact that they also function in the formation of atoms they are not called *nanovita*, but rather 'microvita'. Indirectly their name is also related to the Greek word '*mikros*' meaning 'small'. Certainly they are small, smaller than a nucleon, and operate in fields. Microvita do not deny the qualities or characteristics of energy-mass particles or the forces of nature; rather they co-operate with them by accepting the potential of the already acquired momentum. Microvita have conscience and, in accordance with the nature of their denomination, they 'know' what is proper and what not. The movement of positive microvita is towards subtlety, towards an increased expression of consciousness. Negative microvita, on the other hand, promote a decreased expression of consciousness. Microvita of whatever denomination are not part of the subatomic particles, which are created during the first phase of the Cycle of Creation. They generate atoms, become part of them and in this form

not only end the first phase in the Cycle of Creation, but also form the foundation of the very first stage of the returning phase and cause life that not only emerges on our planet, but also on other places in our universe.

## 6 - Structure

### 6.1 - Structure of microvita

It was mentioned before that everything in the universe is a composition of energy en consciousness. It was also concluded that in a particular entity energy as well as consciousness could be expressed. It is also possible that either of the two is dormant, but not both at the same time. For instance in pure energy, as well as subatomic particles, energy is expressed, while consciousness remains dormant. In an Amoeba both energy and consciousness have reached at least some expression. Microvita will make no exception and are based upon the same bipolarity. Yet, 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"<sup>13</sup>. This seemingly conflict can easily be solved by realising that microvita not only physically move from one place to another, but also have their own mobility and move locally in accordance with their denomination. Positive and negative microvita may have the same characteristic, but certainly both move. The difference in movement of positive and negative microvita may explain for differences in chirality of chemical and biological elements. Movement means energy, which is an indication that the level of energy in microvita can never be zero. A metaphor for their relation ca is a driving intelligent car. Only two items are involved, movement or energy, which is not intelligent, and the material that is being moved: consciousness, which is intelligent. Even if the level of energy in microvita is very low it may have a big consequence on galactic scale and could be an explanation for the existence of dark matter.

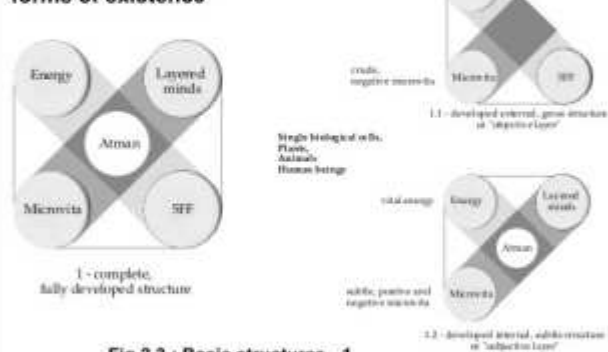
#### 6.1.1 Structure of chemical and biological units

**6.1.1.1 Two layers** - In 'The Phenomenon of Man', Teilhard de Chardin (1881-1955) described evolution as beginning with the moment of creation, which he called the point alpha, and ended in the moment of culmination, the point  $\Omega$ . The prevital phase was the first phase of evolution in which the building blocks, grains of matter came into existence. This prepared the ground for a second, vital phase where grains of life were born and consciousness developed inside increasingly complex creatures. The vital phase awakens from its slumber in the prevital phase and with this activity its psychic inner appeared on the outside. In his idea every biological form possessed of a physical layer and a conscious inner layer. In his own words: "Thus one could say that every being - when considered as a phenomenon - has been constructed like an ellipse, around two related foci: one focus of material organization, and one focus of psychic concentration - the two foci vary equally in the same direction"<sup>14</sup>. According to him consciousness was already present in the physical body, but it found expression in second phase of evolution. Indian philosophy also recognized a gross and a subtle body and established a causal relation between them. "When a subtle body becomes objectified, it appears as a gross object. Water can never be separated from hydrogen and oxygen, which are its subtle component parts. Its existence depends upon that of its component parts, or in other words upon its subtle form"<sup>15</sup>.

#### 6.1.1.1 Structure of the two layers

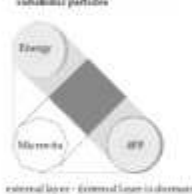
All chemical and biological units are composed of two layers: a physical layer and a subtle layer. Atoms are the simplest components of the gross physical body and possess the subtle layer only in potential form. If we call the subtle body mind, then atoms only potentially have a mind. Here mind is dormant. Every biological form is composed of a physical layer, which is an organised collection of atoms, and a subtle

**Schematic overall pattern in complete forms of existence**



**Fig.2.3 : Basic structures - 1**

**1.1 - Schematic overall pattern of volumetric particles**



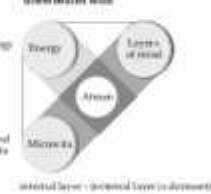
**external layer - (internal layer is dormant)**

**1.2 - Schematic overall pattern of atoms**



**external layer - (internal layer is dormant)**

**1 - Schematic overall pattern of discernible units**



**external layer - (internal layer is dormant)**

**Fig.2.4 : Basic structures - 2**



layer, which we call mind. The present opinion of physics is that matter is nothing but a form of energy, that matter is bottled up energy. Shrii P.R. Sarkar has a different opinion; "No, matter is not bottled-up energy. The characteristics and different wants and specialities of energy are quite different from those of matter. The mass of matter has got nothing to do with energy." In other words, matter is bottles of energy rather than bottled-up energy. This intriguing strong statement indeed and the question arises, "If this is true, what are the bottles, the containers of energy, made of?" It seems atoms are a collection of three components, subatomic particles loaded with certain quanta of energy, provided by photons and these particles move in accordance with the provided amounts of energy. But, according to Shrii P.R. Sarkar atoms not only have a cruder part - subatomic particles and energy, but also a subtle part. This subtle part, the third component, is 'billions of microvita'.

Amoebae are more complex and are composed of so many atoms, homogeneous and heterogeneous molecules, tiny little organs with a complex function, called organelles, but also with a mind. The physical layer of all individual atoms is composed of three items, 1 - energy, 2 - subatomic particles, and 3 - microvita, crude negative and positive microvita. In contrast to atoms, Amoebae also have a subtle layer. It may be simple, but certainly can be called an expressed subtle layer, mind. Does this mind also have a structure, like the physical layer of atoms? Yes, it does and its components are 1 - energy, vital energy - 2 - microvita, subtle negative and positive microvita and 3 - minds. (Fig. 2.3) But how can a mind be composed of mind? That sounds illogical and contradictory. But even an Amoeba is a complex structure with a hierarchic organization of atoms, molecules, protein chains, organelles and a cell membrane, which separates it from its environment. Each level in this hierarchy has elements with a mind of their own, be it that the items of the lowest level, atoms, only have mind in dormant form. In an Amoeba, the nucleus, mitochondria, endoplasmic reticulum, ribosomes, golgi apparatus and plasma membrane function each as autopoietic parts of a cohesive unit. All tiny little elements have a subtle layer, which may be incomplete and only contain subtle negative microvita, but they certainly have a mind. So the overall unit, the cell as a collective form, is not only a collection of atoms and minds, but functions also as a general manager and has an overall mind as well. In the same way a human body is a collection of physical and subtle layers, as well as an overall layer. In addition to what has been said previously microvita don't occur in the interior structure of subatomic particles. Subatomic particles only are provided with Energy and four (or less, depending on their nature) fundamental factors. (Figure 2.4-1) When an Amoeba or a human being dies, the overall subtle layer disconnects from the various physical layers after which this environment becomes unfit for life and all lower physical units rapidly decompose. Only mind remains (Figure 2.5). Generally it is free from the physical world, (see Figure 2.4-2) but when it is assisted by the mind of a living person, it is able to manifest itself for a limited amount of time (Figure 2.5-1 and 2.5-2).

## 7 - Final remarks

Microvita become active at the era of recombination, but do they also enter the Cycle of Creation at this moment? It would not be logical to assume that they enter at this point in evolution, because it would imply that two moments of creation exist, first during the Big Bang and also afterwards, at the nadir of the Cycle of creation. It is more logical to assume that there is one first moment, at or immediately after the Big Bang. Like individual minds, the Cosmic Mind is also composed of Energy and Microvita. But if microvita enter the Cycle of Creation so early why should they not take up an active role in evolution from the very beginning? The reason is that they may enter the cycle but until recombination temperature and pressure in the universe are immensely high. Microvita 'will undergo contraction and hibernation at boiling temperature<sup>6</sup>'. They will only hibernate during the first 300.000 years, wake up at recombination and immediately become active with the formation of atoms. So they are "creations in the internal phase, rather in the returning phase of cosmic creation<sup>6</sup>." An opposition of matter and mind only arises after superficial observation and reflection. At this moment in history it can be concluded that both are composed of energy and microvita. If we still want to make a distinction we can distinguish between on a more fundamental level between Energy and Consciousness. Then the existing Cartesian dualism of Matter versus Mind becomes outdated and a new paradigm, regarding the nature of Nature, has come to life. Future tests in laboratories are needed to investigate whether this speculation can be confirmed or will remain a dream.

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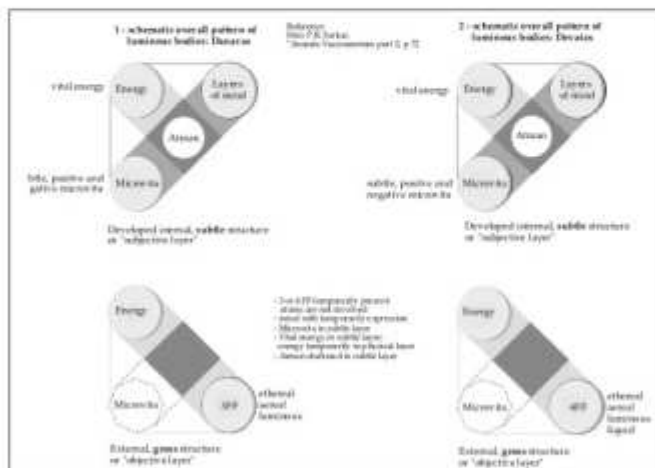


Fig.2.5 : Basic structures - 3

*"Now these microvita – positive or negative – maintain the balance of the Universe.... When the collective strength of negative microvita becomes more than that of positive microvita, the world moves towards degeneration, and where the collective effect of the positive microvita is greater than that of negative microvita, spiritual revolution takes place."*  
-Shrii P. R. Sarkar

## BOOK-POST



## WHAT IS MICROVITA ?

**Microvita :** Micro- Small, Vita- Living

**Definition :** Entities or objects which come within the realm of both physicality and psychic expressions, which are smaller or subtler than atoms, electrons or protons; and in the psychic realm, may be subtler than ectoplasm or its extra-psychic coverage; endoplasm have been termed as "Microvita" (Singular- Microvitum) by Shri P. R. Sarkar.

**Physicality :** The position of microvita is just between ectoplasm and electron, but they are neither ectoplasm nor electron.

**Categories :**

A) Based on density or subtlety-

- First : Coming within the scope of a highly developed microscope.
- Second : Not coming within the scope of a perception but coming within the scope of perception as a result of their expression or actional vibration.
- Third : Not coming within the scope of common perception but coming within the scope of a special type of perception which is actually the reflection of conception within the periphery of perception.

B) Based on nature -

1. Positive
2. Negative
3. Neutral/Ordinary

**Movement :**

- Move throughout the entire universe.
- Move unbarred, without caring for the atmospheric conditions.
- Move through a medium or media i.e. sound, form, figure, smell, tactuality or ideas.

**Root cause of life :**

Microvita create minds and bodies and also destroy minds and physical bodies. The root cause of life is not the unicellular protozoa or unit protoplasmic cell, but this unit microvitum.

**READERS**

Suggestions/Comments/Articles are welcomed

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**AIMS AND OBJECTIVES OF SMRIM**

1. To propagate the knowledge and science of microvita by psycho-spiritual practice in individual and collective life.
2. To increase moral values, to generate scientific thinking, to remove dogma with the spread of knowledge of microvita at school, college and university levels.
3. To initiate and inspire about research on Yogic, Vaedic, Naturopathic, Ayurvedic and Homoeopathic schools of medicine.
4. To incorporate faculty of Physics, Chemistry, Botany and Medicine for research on microvita and integrated medicine; including research on medicinal plants and Homoeopathic medicine.
5. To organize free medical camps in villages and cities involving specialists of different system of medicine.
6. To publish result of the research in national and international journals and interact with other people working in the field in and out of the country.
7. To make judicious use of different systems of medicine and microvita for the treatment of diabetes, hypertension, heart diseases, cancer and diseases of modern era.
8. To establish laboratory and research centers for relentless research on microvita and integrated medicine for the welfare of entire humanity.

**Who can join?**

Any person interested in serving humanity through research on microvita and integrated medicine and abides rules and regulations of the society can become the member of the society.

**Life Membership fee :** Rs. 1500/- (Once)

Contact address :

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*"There should be extensive research work regarding this microvitum 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 in modern society will not be solved in a nice way".*

*-Shri P. R. Sarkar*

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