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मानवतावाद को नूतन दृष्टि से वृहत रूप में देखना ही नव्य मानवतावाद है। मानव के अतिरिक्त अन्य जीवों, लता, गुल्म, यहाँ तक की जीवन के उषाकाल में चल रहे निर्जीव सताओं को भी कल्याण की भावना में अभिसिंचित करना नव्य मानवतावाद है। सेमल, पादप प्रजाति का एक अति महत्वपूर्ण वृक्ष है जिसने सदियों से मानव कल्याण की उच्चतम एषणा के साथ, पादप प्रजाति का सिर ऊँचा कर रक्तम पुष्पों से अपने आभा मण्डल का सौन्दर्य बिखेरा है। सेमल परम सता के रहस्यमय अभिप्रकाश माइक्रोवाइटा का घनीभूत स्थल बना है। प्रकृति प्रदत्त पंचवटी के पाँच वृक्षों में से एक होते हुए भी मनुष्य ने सेमल के अतिरिक्त चारों वृक्षों को संरक्षण दिया परन्तु सेमल का संरक्षण तो दूर, उसको समूल नष्ट करने को तत्पर है। जिस गति से इस सम्भाग में होली की परम्परा का वहन करते हुए इसकी कटाई हुई है, उसमें मानव मनीषा का दिवालियापन ही झलकता है। मनुष्य को अपनी बुद्धि को इस तरह की भावजड़ता से मुक्त करना ही होगा, अन्यथा मानवता भावजड़ता के पाश में बद्ध होकर अपनी उच्च अभिव्यक्ति को खो देगी।

सोसायटी फॉर माइक्रोवाइटा रिसर्च एण्ड इन्टीग्रेटेड मेडिसिन (स्मरिम) का इस दिशा में पहल करना नव्य मानवतावादी प्रयास है। वर्ष 2012 के 1 से 7 मार्च तक चले सेमल संरक्षण सप्ताह ने कई बुद्धिजीवियों को इस दिशा में सोचने को उद्धत किया है। कई पर्यावरण प्रेमियों ने इस दिशा में सोचा भी परन्तु विकल्प के अभाव में हाथ पर हाथ धरे बैठे रहे। परम्पराओं की जटिल बेड़ियों के बन्धन में आबद्ध मानव बुद्धि कभी भी विस्तृत विवेचन नहीं कर सकती है। स्मरिम की पहल ने जहाँ कई व्यक्तियों को विकल्प दिया वहीं कई लोग संकुचित मनोवृत्ति से स्मरिम की मुहिम का विरोध कर दूर हट गए। आने वाला समय ही बतायेगा की इस अभियान का परिणाम क्या होगा। स्मरिम ने सभाओं, पत्रक वितरण, एसएमएस, समाचार पत्र आदि कई

माध्यमों से सेमल की महत्ता की चर्चा तथा इसके संरक्षण की आवश्यकता पर जोर दिया है। परम्परागत सेमल की होली न जलाकर विकल्प के रूप में लोह-स्तम्भ का प्रयोग कर सुखी घास व



कण्डे जलाकर वृक्षों की कटाई के बिना ही होली की परम्परा का वहन करने का संदेश दिया है। एक व्यक्ति की मानसिक शुद्धि में समय लगता है, फिर सम्पूर्ण समाज की सोच को पवित्र बनाना बच्चों का खेल नहीं। व्यक्ति जागे, समाज जागे, और अपनी मनीषा की भावजड़ता की कलुषित छाया को वृहत के आव्हान के रक्तम प्रकाश से तोड़ दे। सेमल की रक्षा करें, संरक्षण दें, संवर्धन करें, धनात्मक माइक्रोवाइटा के घनत्व को बढ़ाये, मानसाध्यात्मिक साधना में तीव्र गति से बढ़े तो इस अभियान की आभा मानवता के विकास का सोपान बनेगी।

माइक्रोवाइटा की मदद से आध्यात्मिक परिवेश सृष्ट करने वाला, कई पक्षियों का आश्रय स्थल और औषधीय गुणों से परिपूर्ण जिस वृक्ष को प्रकृति ने भी विषम परिस्थितियों में बचने का रक्षा कवच दिया है, उसे तथाकथित बुद्धिजीवी काटकर अधजला फैंकने को उद्धत है – इस वृक्ष का संरक्षण करना क्या समय की मांग नहीं है?

- डॉ. एस. के. वर्मा

Gerard Blommestijn

gblomm@gmail.com

on the article

'A new ontological model to approach evolution', by Henk de Weijer, BOMRIM December 2011.

Synopsis : The quantum reduction process is the interaction between (pure) consciousness and the world, consisting of particles, forces, energy, space-time.

Motivation : In the article 'A new ontological model to approach evolution' Henk de Weijer writes among other things on the relation between consciousness and the world of matter and energy. I will comment on this aspect of his article.

My interpretation : The thinking of mankind is like a snake or a lobster: after a growth period it has to cast its skin. In the past centuries we can see an example of this skin casting process. Since the enlightenment age of Western cultures, science had outgrown the beliefs and claims of prevailing religious thought models (the "skin"). Therefore scientists thought they had to do away with every aspect of religion, including the ontological independent existence of the essence of consciousness, the existence of a non-material "I-ness", a Self, which may be defined as: "that which experiences"

Science rejected the existence of a non-material "I-ness of the Mind" for the following reason. If a non-material mind (not reducible to particles, forces etc.) exists, then some physical energy must flow between this mind and the body (the brain) in order to explain experiences flowing towards this I and choices flowing from the I in the opposite direction. This flow of energy has not been measured and will (probably) never be measured. Therefore an immaterial, ontologically independent mind ("I") does not exist, was the reasoning.

But since the advent of quantum mechanics another reasoning became possible (without the vast majority of the scientists being aware of it): contact between matter and a non-material mind (I-ness, that which experiences all contents of consciousness) may be brought about by the so-called 'quantum mechanical reduction process' (or whichever equivalent of it in interpretations of quantum mechanics without a reduction process).

What is this quantum mechanical reduction process? In quantum physics the reduction process passes the experimental result on to the observer. This process reduces the different possible measurement outcomes into one real observation. Such a collection of possible, but not yet real observation outcomes, is called a superposition in quantum mechanics. This means that all potential outcomes (weighed with their complex probability amplitudes) are at the same time superposed, added on top of each other, before the reduction into one specific real outcome takes place. We find these reduction processes (from superposition to outcome) mainly in physics experiments with subatomic particles, atoms, molecules and quantum coherent assemblies of particles.

Arguments exist that point towards the relevance and essential role of the quantum mechanical reduction processes in conscious experience and conscious choice (see Roger Penrose, Stuart Hameroff, Henry Stapp and others). Apart from the basic relation that the quantum reduction processes have with measurement and observation and therefore with consciousness, they have a number of properties that make them uniquely suitable for the direct communication with the "I-ness of the mind", the Self.

- (1) The ability to combine multiple things in the material world to one whole due to the so-called quantum entanglement, which implies instantaneous communication between distant parts of a system without signal transduction (non-locality, 'spooky actions at a distance', Einstein-Podolsky-Rosen experiments).
- (2) Outcomes are totally non-deterministic, which means they are essentially unpredictable. Only the probabilities that the different outcomes have, can be known in advance. There are no hidden variables that determine the outcome (Bell's inequalities experimentally verified).
- (3) The different outcomes of quantum reduction processes may have quite different effects energetically (depending on the outcome) but still in these processes no energy ever flows. So, if the quantum reduction processes are the connecting processes between the brain and the "I-ness", no energy transfer is involved in communicating experiences and choices towards and from I-ness.

In this way - because they are the quantum reduction processes - the perceptions enter the irreducible Oneness of I, and choices emanate from it. They are essentially unpredictable, free, above the physical laws, simply as free- will-choices or decisions of I-ness, of the Self, without physical energy flowing to or from this I, this Self, this Mind.

In short: the main argument to stop believing in a non-material mind has vanished since quantum mechanics. So, the original plan of science to do away with even the essence of consciousness is no longer necessary. Instead, we can keep science with all its achievements together with the essential subjective element of reality: I-ness, the I of the mind, consciousness (that which experiences and chooses the contents of consciousness), the 'Abstract Ego' as quantum mathematician John Von Neumann called it, just in front of which the experiencing and choosing quantum reduction processes happen.

We have these two worlds: the world of objective things and the world of the Self, as well as the previously mentioned quantum mechanical reduction processes which connect the world of objects and energy in space-time with the world of I-ness, Self, the Perennial Now. On the side of I, I-ness, ultimate Self no space, no time, no objects, no energy (in the physical sense) exists but only experiences that borrow space and time from the other side, the objective universe including our nerve cells. The quantum reduction processes happen in what can be called the 'Quantum Reduction Boundary': substrates of material structures (e.g. nerve cells, microtubules, etc.) that are able to sustain the quantum superpositions that represent the possible experiences in every conscious being, every embodiment of Generalized Consciousness.

It is not one-way traffic on the Quantum Reduction Boundary: not only input of experiences towards I-ness, but also output of choices of I-ness towards the world of space-time, matter and energy, in this way reducing superpositions of choice possibilities to one choice outcome which is carried out by the body. The introspectively felt Unity of Consciousness corresponds to the reduction of an entangled superposed wave function happening as one indivisible whole. This also explains the intrinsic binding of all different parts and aspects of our experience and choices at a certain moment into one total 'phenomenal perspective'.

The above synthesis corresponds on the one hand with science and on the other hand with spirituality including the knowledge of the Self, I-ness. With these ingredients we have a beginning, the frame of a new "skin" for the thinking of mankind. So let us start with this and then discover how to move forward.

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Henk de Weijer
Neo-Humanist Education
Research Institute (NERI)
Ydrefors, Sweden
Email: weije265@planet.nl

A NEW ONTOLOGICAL MODEL TO APPROACH EVOLUTION- PART II

1 Evolution and the science of microvita

1.1 The position of microvita in first phase of evolution

During Planck time when the state of Oneness bifurcated into an objective and a subjective universe, microvita entered the very first stage of evolution. Temperature and pressure were extreme and under such conditions microvita could not become active, they only could expand and hibernate¹. But at recombination, with a temperature of 4000K, the situation changed drastically. The crude negative microvita woke up from their inertness and became active. It is interesting to note here what Theilhard de Chardin in "Le phénomène humain" wrote about the later uniting of atoms. "By simple addition or juxtaposition matter does not arise from atoms. A mysterious substance contains them and binds them together..."² It is obvious that he thought of some subtle substratum inside or around the existence of atoms. These 'mysterious emanations of Cosmic Factor' which P.R. Sarkar called 'microvita', first catalyze the formation of atoms and afterwards of molecules, mega molecules, cells and ultimately all other chemical and biological structures. During recombination, at the nadir of the Cosmic Cycle of Evolution, subatomic particles, with their expressed energy but latent consciousness (subatomic particles), united with units that possessed expressed consciousness, but had a minimum level of subtle energy, microvita. Different from what Dr. Michael Towsey writes³ that atoms are the first complete, prefabricated components of the universe that, because of their included conscious, intelligent and creative microvita, allow for greater complexity in the form of biological structures. This increased complexity is the characteristic of the second phase of evolution, the phase of biological life.

1.2 Four forces of nature and intelligence versus randomness

This new completeness paved the way for intelligence as a driving force in evolution. During the first phase of evolution the four forces of nature suffice to overcome random, so slow, developments. In the second phase internal and external fields of microvita, with their practical intelligence, act as morphogenetic agents that accelerate the low speed of a random process. Natural forces, mutation, natural selection, gene flow, genetic drift and natural selection need not be denied as driving forces, but intelligence inside species and their environment will appear to play an important role in evolution. In 2010 scientists at the University of Liver pool provided experimental evidence, showing that evolution is driven most powerfully by interactions between species, rather than adaptation to the environment. Dr Michael Brockhurst said: "We used fast evolving viruses so that we could observe hundreds of generations of evolution. We found that for every viral strategy of attack, the bacteria would adapt to defend itself, which triggered an endless cycle of co-evolutionary change. We compared this with evolution against a fixed target, by disabling the bacteria's ability to adapt to the virus." "These experiments showed us that co-evolutionary interactions between species result in more genetically diverse populations, compared to instances where the host was not able to adapt to the parasite. The virus was also able to evolve twice as quickly when the bacteria were allowed to evolve alongside it." As could be expected, the article mentioning this research evoked a huge and negative reaction, but mostly based on sentiments rather than ratio⁴.

1.3 The second phase of evolution

1.3.1 About layers and hierarchic levels

During the first phase of evolution matter is born from Macrocosmic Mind and during the second phase microcosmic mind is born from first evolved matter. The foremost principle of biology is: "Life comes from life." If life contains expressed consciousness it must have an origin, which also contains consciousness. Life has evolved from matter, so matter cannot be completely dead and must contain at least a potential form of consciousness⁵. Microvita, included in atoms, are carriers of expressed consciousness and, because of that, are capable to turn the initial evolution, of Macrocosmic Mind into matter, into microcosmic mind emerging from matter and consequently enable the birth of life in later stages.

All organic forms are composed of atoms and molecules, with only a material layer, but all organic forms possess a subtle overall layer. In the course of evolution some simple organisms developed into more

complex organisms and consequently also their subtle overall layer developed from simplicity to complexity. In principle the subtle overall layer is composed of three elements: mind, energy and subtle negative and/or subtle positive microvita. A simple molecule is equipped with the simplest, but not yet complete, subtle overall layer: energy and subtle microvita. Its mind is rudimentary and has not yet reached complete expression, because its lower layers don't have a mind.

If the subtle layer of organic forms is another word for mind, a natural question comes up: "How can mind be composed of mind?" Of course the answer must be in the negative; a mind cannot be composed of itself. Consider life as composed of a hierarchical structure⁶. Various levels can be recognized like subatomic level, atoms, molecules, organelles, cells, tissues, organs, organ systems and organisms. As Erwin Schrödinger already observed⁷, each higher level shows new properties beyond the already existing ones of lower levels. Atoms show properties that subatomic particles don't possess; water molecules show properties that are unknown to hydrogen or oxygen and organs show properties beyond the scope of their cells.

1.3.2 What is life?

Microvita inside atoms function as a kind of glue for cooperation and for future higher levels of complexity, but atoms are not yet equipped with a subtle layer, mind. Molecules do have a grid of subtle negative microvita around the totality of their various included atoms, so they do have a mind. One limitation exists: their atoms do not have minds and consequently the overall mind of a molecule cannot be connected with non-existing lower level minds. In other words, the overall mind of a molecule is incomplete and consequently a molecule cannot be called a living unit.

All higher levels are composed of lower levels, from which it can be concluded that the material layer of e.g. a virus consists of molecules, atoms and crude negative microvita. Its highest subtle overall layer only contains subtle negative microvita. Atoms only possess crude negative microvita in their material layer, while molecules only possess additional subtle negative microvita in their subtle overall layer. The overall, so subtle, layer of a virus also only contains subtle negative microvita. This means that a virus is a collection of only crude, negative and crude, positive microvita. Because of these characteristics viruses are not living cells, but efficient and clever parasites.

An organelle, a similar simple cell or a subcell has its own identity and its own complete, overall mind. Different from a virus, the overall mind of an organelle, with its energy and sub-minds, not only contains subtle negative microvita, but also subtle positive microvita, sometimes called metavita. Organelles are capable of independent reproduction and are living units. Human beings may not be the biggest creatures on earth, but they do have the most developed biological structure and overall mind. Their complex overall mind in itself is a composition of several layers, called kosa's in Sanskrit.

Bodiless minds are far from generally accepted, but if they exist they cannot have a material layer. During the dying process the overall mind dissociates from the sub-minds and the numerous material layers of atoms and molecules. What will remain is a still united network of subtle negative and positive microvita plus their collected energies in the various nodes of this network. The lower minds of the hierarchic material structure are disconnected from the overall mind and all biological units disintegrate.

Organelles or similar relatively simple, biological structures are the first living entities. While reading this, the 'Mother of All Questions'⁸ certainly will come up: "What is life?" What is the difference between chemical and biological units? From what has been written before a number of definitions can be summarized.

Question 1 : What is life ?

Answer : Material life is a local structure of cooperating microvita of various denominations, in unity with subatomic particles, atoms and molecules.

Question 2 : What is a living unit ?

Answer : A living unit is a biological, autopoiesic network with a basic, but complete overall mind. Both biological network and complete overall mind are interdependent. A biological unit without an overall mind is like the dead chicken of Paul Davies⁹. But also, a complete overall mind cannot have physical existence without the support of a biological network. Such a network is a layered and hierarchic organization of biological autopoiesic units each with an individual overall and sub-mind. A basic, but complete overall mind is a single or multiple layered network of subtle negative and positive microvita, plus the collected energies that are located in the various nodes of this network.

But, a mind with minimum characteristics can only be a crude prototype, rather than the equivalence of

a fully developed mind. A basic mind accepts incoming information and takes the resulting form, but does not yet possess enough identity to be self-reflective. Such a mind can be called a static mind.

After in such a simple unit a huge amount of experiences has occurred, it starts developing an internal observer of those present and past activities (memory) and begins to identify with the content of its memory. The conviction comes "I am what I am doing now and what I did before", it starts developing an "I"-identity with a certain amount of intellect. Such a mind is no longer static, not yet fully conscious, but nevertheless dynamic.

Still, developments may continue and such dynamic minds may begin to realize that all experiences are temporarily, they occur and fade away into memory, yet a feeling of "I" is permanent. "Everything changes, but I do not change and remain to exist inside all dynamic changes." Such a mind is no longer dynamic and gets transformed into a subtle and fully developed, highly conscious mind.

Question 3 : What is matter?

Answer : It is interesting here to read the following strong statement of P. R. Sarkar¹ :

"Some intellectuals are of the opinion that matter is bottled-up energy. No, matter is not bottled-up energy.

The characteristics and different worts of energy are quite different from those of matter.

The mass of matter has got nothing to do with energy".

Energy is present in matter, but it may leave and then get transformed into a different kind of energy, like e.g. kinetic energy may become stored as potential energy and stored energy vice versa may be emitted as a force particle. Matter is different; one form of matter cannot be transformed into another form. Energy and movement are always together. Energy moves and can only remain local if it finds a shelter.

Microvita are the shelter of energy, of pure energy. So, matter is a collection of pure energy, subatomic particles, which are a local form of energy, and negative microvita. Without microvita matter will lose its form. If the ideas contained in this article are correct, subatomic particles cannot be matter, but are a nonlocal wave of energy. They do have specific characteristics and are influenced by the four forces of nature, can absorb force particles, release particles, but their nature remains wave-like, rather than form. The form that arises after observation inside the mind of an observer is not the form of the subatomic particles or atoms. It is the reflection of their waves against a specifically directed field of electromagnetic waves or against the field of microvita inside the mind of an observer. No collapse of waves occurs, it is the interference of waves that appears as form inside mind. No dead or live cat; no cat at all! Another example of the relation between microvita and form is the Bose-Einstein condensate. If the temperature of matter will be reduced and reached absolute zero, the negative microvita will hibernate. Consequently form and identity will get lost and the collection of atoms no longer remains a collection of individual forms but acts as one formless atom.

1.4 Two factors included in morphogenesis

The material basis of life is the atom, including billions of microvita. Yet, the ultimate material cause of atoms is consciousness. The first efficient cause - that which is the dynamic and creative cause of forms - operates in two phases: abstract and actual morphogenesis⁹. The first efficient cause of the abstract phase is the creativity and intelligence, included in consciousness, needed for the design of new forms. P.R. Sarkar¹ calls this Jina Purusa, in English 'expressive power'. But creativity and abstract intelligence alone do not suffice, a second efficient subcomponent is needed: energy, with its abstract capacity to adopt a huge variety of mental forms¹⁰. After the first and abstract phase, the process of morphogenesis continues with a phase of materialization. In this process abstract creativity is needed to transform what already is present into something new. This creativity is also a characteristic of consciousness. P.R. Sarkar named it Krta Purus'a, 'creative skill of action' in English. On local levels, these two characteristics of consciousness are represented by microvita, both present in the environment, as well as inside evolved chemical and biological forms. Negative microvita not only have the ability to act as catalyzing agents in the morphogenesis of new forms and its repetition, but also in their maintenance, as well as their decomposition. Subtle positive and negative microvita are involved in the formation of simple and complex multilayered minds.

"Billions of microvita produced 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 kind of atoms are the creations of microvita. Naturally, chemistry, biochemistry and all other associated branches of science will undergo a revolutionary change".

- Shrii P. R. Sarkar

2 Conclusions

With William of Occam it can be agreed that in general, complexity be best understood and explained by simplicity. A more sober matrix offers a quicker route to what is essential. However there is a limit to simplicity. The simplicity of Occam's razor needs to include all layers of the subject of research. Reduction without deep observation will only result in superficial, ambiguous and biased understanding. In opposition to atomism, holism leads to a deeper understanding of the multiplicity of forms and allows any observer to discover and realize the fundamental bipolarity in the nature of the universe and oneself.

The paradigm of bipolarity, as it is explained here, is a rational extrapolation of already existing ideas. It is my opinion that it has the potential to offer a significant contribution to vital biological and neurological questions, e.g. "What is the origin of life?" "How is mind related to matter?" and "Which driving forces are essential in evolution?" The new science of microvita, as initiated by P.R. Sarkar, with its focus on internal and environmental intelligence and creativity, has the potential to enrich the flow of the developmental-variation-focused view, which, at this moment, is becoming complementary to gene selection¹¹. Both bipolarity and the science of microvita are in its infant stage and need a lot of research before reaching maturity.

This article in itself maybe analytical and an extrapolation of already existing knowledge, yet, it is theoretical and an intellectual speculation. Moreover it is in no way complete and will contain mistakes. To discover whether it holds any truth at all, its assumptions need evidence, which can be obtained first by critical analyses to be followed by intellectual, psycho-physical and of course, empirical research. Such research cannot rest for long upon the achievements of a single discipline, but will only become fully effective and convincing after interdisciplinary cooperation. A first approach towards such a new horizon will be to develop the interest needed for a skillful and creative design of one or more appropriate tests.

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SMRIM LM No. 51

Congratulation

Dr. Manju Mali, Ph.D. (Science) has been selected in **Rajasthan Administrative Services (RAS)** Examinations-2010 and now working as Junior Commercial Tax Officer at Udaipur (Raj.) India.

हलचल

सेमल संरक्षण सप्ताह (मार्च 2012)

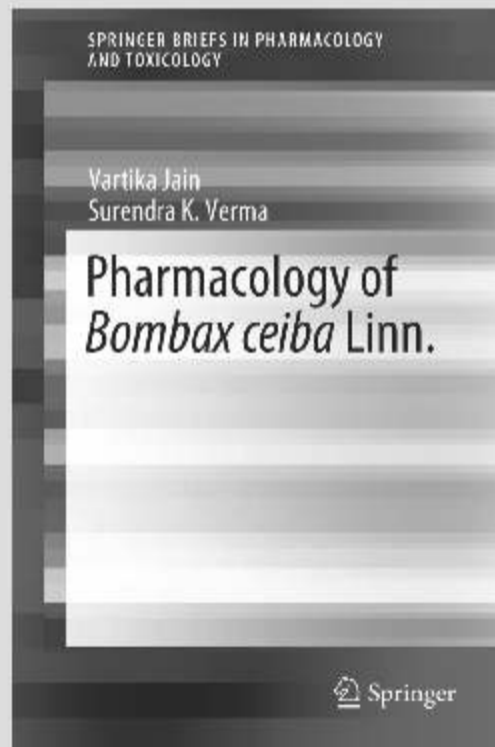
उदयपुर। स्मरिम द्वारा 1 से 7 मार्च तक सेमल संरक्षण सप्ताह मनाया गया। इस सप्ताह में शहर के विभिन्न स्थानों पर जन जागरूकता कार्यक्रम चलाये गए, सेमल संरक्षण से जुड़े पाँच हजार पत्रक वितरित किये गये और 1500 एसएमएस द्वारा जनजागृति के प्रयास किये गये। साथ ही कई स्थानों पर सामूहिक होली जलाने के लिए प्रेरित किया गया। सुभाष नवयुवक मण्डल के सदस्यों द्वारा सेमल के 500 पौधों लगाने का संकल्प लिवाया गया। सबसे महत्वपूर्ण सफलता के रूप में कई संस्थाओं और कॉलोनियों द्वारा लोह-स्तम्भ को होलिका दहन के लिए प्रयोग में लिया जाना था। सप्ताह का समापन 7 मार्च को जयलक्ष्मी रेजीडेन्स वेलफेयर सोसायटी, न्यू भूपालपुरा, में लोह-स्तम्भ पर होलिका दहन के साथ हुआ।

सेमल को भक्त प्रहलाद का प्रतीक मानने वालों के लिये अक्षुण्ण लोह-स्तम्भ एक उपयुक्त विकल्प था। सभी के अनुसार परम्पराओं के नाम पर एक जीवित वृक्ष की आहुति देना भावजड़ता का प्रतीक है जिसे नव्यमानवतावाद रूपी अस्त्र का प्रयोग कर शीघ्रता से मिटाना होगा ताकि एक महत्वपूर्ण औषधीय वृक्ष प्रजाति असमय कालकवलित होने से बचे। स्मरिम द्वारा विगत कई वर्षों से चलाये जा रहे सेमल संरक्षण अभियान के अन्तर्गत किये गये प्रयासों के उत्साहवर्धक परिणाम अब सामने आने लगे हैं और बुद्धिजीवी वर्ग सेमल वृक्ष जैसी महत्वपूर्ण पादप प्रजाति को बचाने के लिए तत्पर हुआ है।

—डॉ. वर्तिका जैन



SMRIM'S PRIDE - FIRST BOOK ON SEMAL TREE



2012, 2012, XII, 94 p., 19 illus., 13 in color.
Printed book Softcover springer.com/ebooks
ISBN 978-3-642-27903-4
• 49,95 € | £44.99

This work is the first monograph devoted solely to Bombax ceiba, popularly known as the Red Silk Cotton Tree. Consisting of seven chapters, it covers all relevant aspects of this plant, from its historical and spiritual importance, to its botanical characterization, pharmacognostical details and ethnobiological uses, to its scientific validation in various animal and human studies. Each part of the tree is of medicinal value and possesses many novel chemical constituents such as shamimicin, bombasin, bombamalone, bombamaloside etc. along with other bioactive secondary metabolites. The book presents the chemical structures of the most important constituents and highlights various pharmacological activities, predominantly antioxidant, anti-inflammatory, anti-mutagenic, hypoglycemic, hypotensive, hepatoprotective and fibrinolytic, which may prove to be a source for the development of a novel phyto-pharmaceutical agent to treat diabetes, heart disease and cancer. In addition, separate chapters deal with the commercial and ecological significance of B. ceiba, as well as a case study on its conservation. Numerous color illustrations are included to identify the plant and to justify its nickname, the "Little Bird's Cafeteria".

Event of the Year
International Seminar on
Microvita Research
 24 March 2012
 Udaipur (Rajasthan) INDIA

BOOK-POST

To,

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
 E-mail : skvermaster@gmail.com

From :

Society for Microvita Research and Integrated Medicine (SMRIM)
 28, Shivaji Nagar, UDAIPUR-313001 (Raj.) INDIA Mobile : 9414168910
 E-mail : skvermaster@gmail.com, smrim08@gmail.com

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 :

PRESIDENT

Society for Microvita Research and Integrated Medicine (SMRIM)
 28, Shivaji Nagar, UDAIPUR-313001 (Raj.) INDIA
 Telephone : +91-9414168910, E-mail : skvermaster@gmail.com

"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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