

Essay

Matter-Consciousness: Duality, Complementarity & DNA

Srinivasan Rengarajan*

Abstract

The absolute the invincible complementary pair of consciousness & matter remained in a state of involution effulgence in inaction when the consciousness progressively gravitated into matter leading to its nadir of materiality namely total charge equality with parity symmetry within its pair. But the answers to "why" has not yet come from scientists as of now since they do not perceive the relevance of 'consciousness' its complementary partner & 'cosmic desire' its activator during their investigations. The breakthrough advances made in DNA research answers most of the riddles in the evolution theories. Science can answer without ambiguity about 'how' of the 'matter', for that matter almost everything.

Keywords: Matter, consciousness, science, duality, complementarity, DNA, evolution.

Matter & Consciousness

Quantum mechanics etc. reveal that matter has now, changed its name to energy, the energy to fields and the fields to the unified field – Consciousness-- making it an eternal reality. John Hagelin. Maharishi foundation

The outer and inner nature of beings - matter & consciousness - are in a complementary relationship. Nils Bohr, quantum scientist

Consciousness is a phenomenon of storage & processing information integrated in a unified whole that cannot be divided into separate elements. Consciousness is a unified entity. Tononi, quantum scientist

We as a rule go through sensory experiences while looking at what we observe and study. In other words, our state of consciousness has the vitality to foresee our possibilities. This is due to the origin of the consciousness & matter being the same, that of the vibrations of unified field of natural law. Our experiences are thus open to direct investigations & the life process becomes a systematic science. This is not recognized by mainstream science. Elisabet Sahtouris, evolutionary biologist.

Vitality depends on the symmetry of consciousness/matter pair in an entity. Most of us were taught the Newtonian and Darwinian model of science. The common belief is that we live in a material universe, where particles make up atoms, atoms make up molecules - and they all bump

*Correspondence: Srinivasan Rengarajan, Independent Researcher, India. E-mail: sugantha1912@yahoo.com

into each other to create the world we live in today as if the universe is a big mechanical clock we can study objectively. This is the status quo western scientific view and it's the way most science is conducted today.

Is this just how things really are? Are these the appropriate beliefs about the nature of reality? Are we living in a living universe? One of the advantages of making the assumption that the universe is alive, is you don't need to work out how to get life out of matter.

You make the fundamental assumption that consciousness is everywhere and then our material universe - consciousness/matter pair - naturally portrays the enlivening nature of the universe. Intelligence & life then are inherent in consciousness. So instead of seeing the universe as a giant mechanistic clock, one sees it as a self-organizing, participatory and self-creating autopoietic system.

Making this shift in belief and assumption will have some profound implications on science. This includes accepting the reality that in participatory systems there is no room for objectivity.

For objective science organisms are algorithms & life is data processing. Vedic science upholds that compatibility among vibrations of organisms in complementarity is the operating principle.

The visible body just happens to be where the wave function of the organism is most dense. Invisible quantum waves are spreading out from each of us and permeating into all other organisms. At the same time, each of us has the waves of every other organism entangled within our own make-up.

This incredible new discovery actually positions each living being within a non-local quantum field consisting of wave interferences (where bodies meet). Each person is thus not only in an emphatic relationship with each other but is also entangled with one another.

The Upanishads posit that vibrations of consciousness gravitate into affinity/attraction vitality as Matter that can be molded into what one desires to see & possess in tune with the universal mind, though we may be completely unaware of its existence because it is not something we can define. Gravity functions as the force of attraction of the consciousness in the creation process that empowers the thought process to materialize, as easy as potter molding a vase from clay. Consciousness through this OM vitality reverberations - Nadha effulgence - materializes into Matter - as nadha bindu - cosmic seed that grows as cosmic tree through nadha spandan- the cosmic harmonics of the universal rhythm that has the potential to establish nadha dhvani - cosmic resonance - bliss - through collective consciousness in the manifest universe itself. In the un-manifest realm it pervades as Jyothi - radiations - . At the end of evolution there is a total merger of all the consciousness & matter into the singularity in involution, a period of inactivity.. During this period the consciousness revitalises matter with nadha laya - cosmic merger - , all forms & traits till the nadir of materiality namely total symmetry between them is reached in the

cosmic seed of the oncoming cycle. This is the essence of cosmic cycle that governs even the day to day life cycles.

Science & mysticism

Science is the impersonal world of thoughts. Mysticism links science for our deeper needs. Rabindra nath Tagore

So material & intuitional evidences are complementary for gaining total knowledge.

What is right is truth because Creator says so, according to true believers. The philosophers argue their case in elegant terms, but when you get to the depth of what both of them say, it's usually about how one can reason one's way into discovering and then defining reality. Neither science nor mysticism alone can give total answers even though both agree that the source evolved by itself about 14 billion years, as matter / consciousness complementary pairs each infused with salient imprints of equality / symmetry within its pairing elements, as its representations in the universe.

Vedic mysticism is also aware that the universe from the inception is gradually tilting in favour of matter, with a corresponding depletion in the vitality of its consciousness in all the replicating cycles. According to them there is a chronological growth of materialism along with depletion of the vitality of consciousness in the world over the ages, which the puranas - ancient stories - & itihahas - epics - of the Hindu scriptures exemplify. Now we are in the last quarter of the present epoch that will repeat in eternal cycles. The above reality of nature has been experienced, through the vibration cycles of the observers, the acts of observation & also the observed. Till the advent of 17th century science, Hinduism was held in high esteem for its deeper insights into mysteries of life & its existence.

Science depending only on material evidences during their probes looked at the above perceptual experiences as delusions & failed to recognize them as fundamental realities & also ignored the truth that the source of origin enlivened itself in cyclic effulgence. They are dismayed at randomness at micro level which is part of nature that contributes to unlimited diversity while at the macro level there exists a basic order according to the cosmic intent for sustaining basic order.

This scientific approach according to mysticism is a form of delusion. Nevertheless science was comfortable with its theories on rationalism (naturalism without delusions) & equality (parity within naturalism), based on its deterministic logic without facing intuitional road blocks. Since the evolution cycle is quite long this logic remained good for practical purposes. But with the theories of quantum physics claiming 'fuzziness' at the micro level, its stand on a steady state universe offering only a limited diversity, is becoming matter of discussion. So much so it is

vague on the questions like "where are we now & where are we heading". It is rather calling quantum science as 'quantum mechanics' instead of 'quantum organics' as quantum science has only brought to light a variety of 'organization' of structures & symmetries existing in nature.

Knowingly or unknowingly the 'objective' science encourages this materialistic outlook!

It also prescribes equality, rationalism, democracy, secularism etc. as 'logical' social solutions with 'conviction' as against the diversified possibilities envisioned in Vedic mysticism. This conviction however much it may appeal to the transient logic in bringing popular social reforms, does not reflect the true nature of the cyclic universe, comprising various entities, each of them engrained with its salient imprint - DNA - nature's immortal parameter. "Equality between the elements of a complementary pair only is a cosmic virtue & that between the pairs is nonexistent". Moreover the byproduct of this deterministic logic & the concept of equality breed pessimism & coercion respectively.

It also breeds discontentment in the salient & intrinsic ethos & erodes the confidence in the social outlook making life devoid of meaning. These 'rational' convictions can become realities only when 'spiritual' meanings attached by scientific mystics. Or else these will remain as coercions only. Objective science looks at universe as matters it can see & analyze; not as consciousness that it can feel & savour. It can investigate the human physiology with conviction, but its psychology in a rather vague manner only.. Science looks at evolution thus. "Human societies evolved as did other species, not according to some cosmic design, but in response to the immediate environment their members encountered & muddle along without any master plan adapting to randomness".

Presently the 21st century science 'feels' the 'intelligent design' inter woven in various aspects of the nature's 'self-healing' mechanisms & so much so it accepts the probabilities - predictions based on averages in nature - -as systematic science without 'insisting' on material evidences. Rightly so, this has benefitted the society on various fronts solving even day to day issues. Side by side the traditional mysticism which depended on yogis, gurus, visionaries etc. for the transformation of societies through spiritual knowledge, is now changing to metaphysics /scientific mysticism & permeating the intuitive wisdom of complementarity in compatibility through counselors.

This cosmic wisdom says that the 'equality' of the complementary pair elements promote vitality of the pair & the 'inequality' enhances the diversity in its existence.

The breakthrough advances made in DNA research answers most of the riddles in the evolution theories. Science can answer without ambiguity about 'how' of the 'matter', for that matter almost everything. But the answers to "why" has not yet come from scientists as of now since they do not perceive the relevance of 'consciousness' its complementary partner & 'cosmic desire' its activator during their investigations.

It is high time that the scientific mystics with all the modern scientific validations in their fold, establish a meaningful & 'close ended' evolution /involution model, i.e. the age old vedic 'cyclic universe' model, to enable the common man to come to terms with nature in his comfort zone.

Science & mysticism themselves are two complementary ethics fundamentally united by the seekers of human values for understanding the relation between the oneness of the cosmic nucleus & the diversity in its creations. These ethics sharply differ in their pursuits. Science distinguishes between self & the non self by objective & dispassionate logic to coerce the present day minds into accepting their 'imagined order', order based on rationalism with their ability to predict & control probabilities, whereas mysticism is yet to convince these minds that a "spiritual order", can only unveil possibilities. Society is still in dismay. Quantum arena is fuzziness for science & evolution organics for mystics.

“Scientific mystics' gifted with visionary insights should strive to establish the union of science & mysticism namely the union of self & the non self - - the unification of all the laws of nature - "spiritual order" - . When the self & the non-self unifies the cosmic desire is fulfilled.

Science without religion is lame & religion without science is blind. Einstein

When the society embraces spirituality true progress is attained. Aurobindo

[S]quare root of 1% of world population (7,000 mystics) together can beam the cosmic transcendental radiations. Maharishi Mahesh Yogi

The mystics may answer the riddles posed by science but do not have forthright answers for the common man's query on 'survival & breeding' of more vital at the cost of lesser ones. This remains the "hard" question. The 'easy' answer may be "*collective consciousness guides ones destiny.*"

These thoughts lead us to the following:

Laws of Nature are the laws of singularity, the non-contingent source; - the divine laws that govern the universal orbits with precision - the precise laws of the cosmos, the scientists measure with accuracy - the precise parameters of the genotype cosmic seed of the universe. Singularity is the stabilizing factor of the cosmos.

Laws of the universe are the Laws of the aberrations of the nucleus - - the laws of the phenotype tree - the contingent universe in growth/decay cycles, the panoramic projection of 'cause & effect' contingencies intended to be savored by the source 'as many' - The sentient aberrations are the cosmic controllers of the collective consciousness.

The Creator principles - (sanathana) eternal life principles - function in micro & also in macro levels in manifest & unmanifest horizons.

The evolution is all about urge of the cosmic desire to savour diversity in an orderly universe. Thus the almighty evolved itself as an unequal pair of universe & singularity (major partner) so as to be in cyclic existence. as its aberrations, as mass/vitality unions. These aberrations have the inherent potentials independently as parts of the invincible nucleus for exploring new horizons on their own. It is prudent to understand that the absolute desired this exploration to be pursued as integral activities of 'one & also that of 'many'. This actually is the nature's inbuilt contingency that means each one has to explore the panorama as belonging to one common source. The resultant of the collective consciousness governs the universe as each one projects the 'oneness' character of the source.

Looking back at the evolution progress thus far, we can realize that science & mysticism as a complementary pair have steered the evolution. Materialistic knowledge of the individuals has grown over the ages, through mutations /activations in their replication cycles, in stages from the knowledge of instincts, ethics, scriptures, scientific validations of mystic truths. Remarkable break through validations are the eternity of the DNA molecules, the symmetry & complementarity during the big bang, cosmic communication through quantum entanglement, super symmetry during a time cycle by CPT theorem etc.

Mysticism is gradually losing ground as per destiny & at the end it will be the universe of matter alone. This forecast of a progressive depletion in the manifesting vitality & hence the progressive loss of equality & symmetry within the complementary pairs & the ultimate cessation of evolution energy, can be a matter of concern.

The quantum science also contributes to this anxiety by raising doubts about the intelligent design of nature & by declaring the existence of unambiguous fuzziness in micro levels. The most we get from rational science as solutions to our common quest 'where things will be and how they are likely to behave' in future, are the theories on 'probability'.

For the scientists who are non-believers, the quantum uncertainty & randomness are the theoretically established field realities & for them there is no need for further investigations into the theories of probabilities. But the believers among them, who are intuitively not convinced, are postulating the "hidden variables theory" involving cosmic entanglement between particles in symmetry to confirm the super natural presence.

The big bang theory has established that the quantum foam - cosmic nucleus - remained with absolute charge neutrality when the quantum fluctuation - cosmic desire - initiated the big bang with evolution vitality & also that total parity prevailed within the complementary pair elements of all the aberrations at the instant of their disintegration from the nucleus. Hence the big bang, the creation process itself, amounts to be an orderly event rather than a random explosion.

More over with the 'charge/parity/time theorem' subscribing to the time cycle symmetry in the evolution/involution process implying a 'cyclic universe' concept, all scientists, instead of doubting & debating on the "intelligent design" should pursue 'intuitive' rather than 'objective' deliberations on a close ended evolution/involution model of Vedic mysticism namely "big bang", "big crunch", "big bounce" in eternal cycles & resolve the mysteries surrounding our existence to infuse optimism in the common man. Resorting to 'objective' researches in isolated areas & then trying to look for answers to super symmetry & unification theories. will further drag us towards 'manmade big bangs'.

It took decades & decades of scientific research to close in on the big bang theory & the probability theory, to come to a common agreement on nature's ability create & sustain a basic order in the universe. The unification of all the laws of nature is yet to be established. The scientists have so far been able to unify all the forces of the observable universe except the forces of gravity - graviton - of the universe & singularity. The Vedic belief of a complementary relationship with universe & singularity may resolve the issue if the gravitons of the singularity that carry enormous amounts of gravitational energy with little mass creating anti-gravitational effects in the universe, are viewed as the energy carriers of its complementary partner. Grand unification becomes a reality if we can comprehend the dual nature in the functioning of the singularity & the manifest universe. The forces of the universe have been unified already by quantum physics. The gravitons have to be recognized as the energy carriers of singularity for establishing this unification.

Duality & complementarity

The fundamental life principles according to Vedic mystics are:

1. Any entity exists only as a complementary pair of matter & consciousness with basic symmetry, the more the symmetry the more invincible is the entity.
2. Life owes its existence to vibrations & effulgence. Devoid of this it is nonexistent & the pair elements unfold from the pair.
3. Desire in the evolution vitality annihilates the unfolded pairing elements releasing energy for recombination into compatible pairs for continued existence till the vitality/desire lasts.
4. The evolution period goes through a gradually depleting vitality till its end at involution.
5. When the vibrations/effulgence cease to exist in that environment devoid of vitality/desire the unfolded pairing elements merge in cosmic attraction into involution a period of inactivity equal to that of evolution & recuperation of vitality in involution effulgence.
6. Loss of this effulgence at the end of involution unfolds the pairing elements with vitality initiating a new evolution cycle.

The evolution is all about the manifestation of the nucleus as universe & singularity pair & their merger back again instantly as involution with an equally long duration, closing the cycle with an instantaneous big bounce. Thus the almighty evolved itself as an unequal pair of universe & singularity (major partner) so as to be in cyclic existence in diversity, as mass/consciousness complementary pairs. All these aberrations are enlivened entities with inherent potentials independently as parts of the invincible nucleus for exploring new horizons on their own. It is prudent to understand that the absolute desired this exploration to be pursued by these entities as integral activities of 'one & also that of 'many'. This actually is the nature's inbuilt contingency that means each one has to explore the panorama as belonging to one common source. The resultant of the collective consciousness governs the universe as each one entity projects the 'oneness' character of the source.