



**COVID-19**

# EMERGING NEW WORLDVIEW

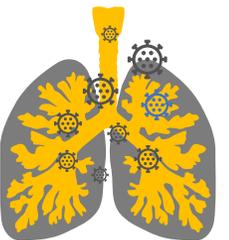
Professor A. K. Mukhopadhyay, MD

A student of Consciousness

21<sup>st</sup> April, 2020

# Let us begin from where every event starts; Consciousness

- Consciousness has Three textbook Functions
  - Cognition
  - Emotion/Feelings
  - Will
- Related to creation of Three Kinds of Prophets, who contribute in Worldview formation
  - Prophet of Science (Cognition)
  - Prophet of Religion (Emotion/Feelings)
  - Prophet of Politics (Will)



# The Real Issue, Consequences & Result

- **The Issue:**

Many of the Prophets are passing their own “Will” (Free or Tutored) as God’s/Nature’s/Nation’s “Will”

- **Consequences:**

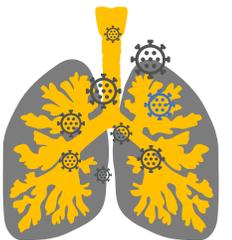
Corruption of Surface Information Systems (Fake News, Programmed Malware)

Corruption of Elemental Information Systems (Viral Genome manipulated as Biological Weapon)

- **Result:**

Unprecedented loss of Human Lives (Mortality)

Far more in number, unprecedented loss of Human Health (Morbidity)



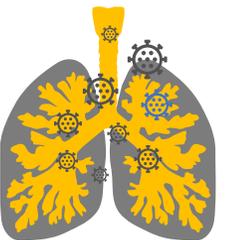
# The Weapon & The Target

- The Weapon: A Tiny Invisible RNA Virus
- Prime Target : Not animal nor plant nor any other living entity in particular!  
The human being is the prime target!

- Why?

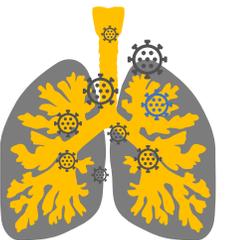
Probably because,

The human being who has started considering himself as the cognitively highest evolved being in the universe, who is techno-savvy but selfish and greedy, in possession of weapons for mass destruction, who is responsible for devastation of the solar, planetary, animal and plant ecosystem, who either as Scientist or as a Religious or Political leader has started passing their own will as Nature's / God's / Nation's "Will"!

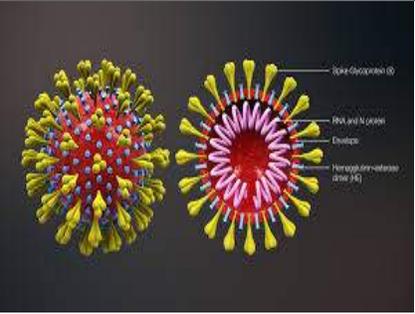


# Why this is not Nature's / God's Curse?

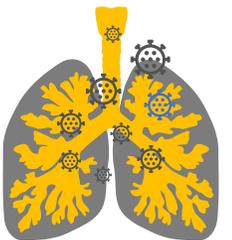
- Simply because, Nature or God never curse!
- Both throw challenges to who challenges them
- They also wish them to win the war with heightened and sharpened cognition, learning a better new skill and inculcating a radical change in their attitude to stop exploitation of nature, not to pass one's tutored/free will as Nature/God's Will
- Both God and Nature are great teachers who are extremely patient to bring coolly the desirable changes in the behaviour of the learners in terms of knowledge, skill and attitude
- At the end, grows a deep sense of reverence and awe for both of them!



# Post COVID-19, Emergence of New Worldview



- Science Matters
- Information Systems Matters
- Psychology Matters
- Economy Matters
- Leadership Matters

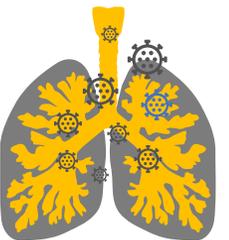


# Post COVID-19 Science

We are at the middle of five century's science!

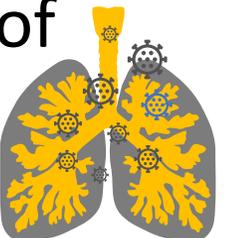
- Nineteenth century: Classical Physics
- Twentieth century: Theory of Relativity & QM
- Twenty first century: Science of Information
- Twenty second century: Science of “Life”
- Twenty third century: Science of Consciousness

*The Message: We are Optimistic!*

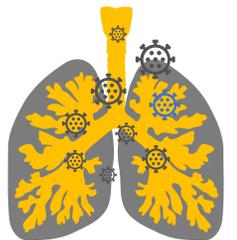
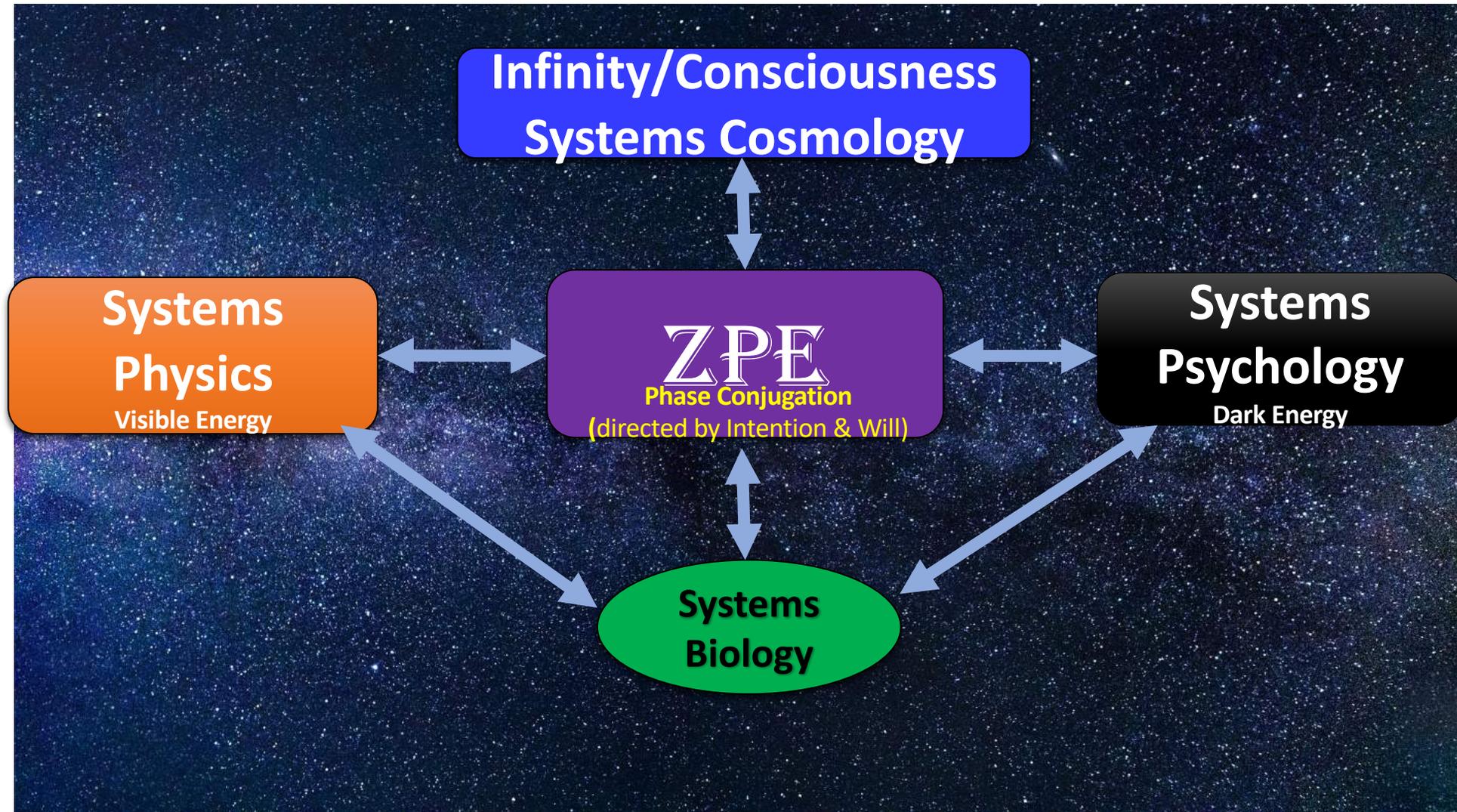


# Post COVID-19 Science

- Post Covid–19 Science is DeepScience
- DeepScience is deeper than DeepMind & DeepLearning
- The question that guides DeepScience: What is there at the Depth?
  - Unde venis Quantum Mechanics?*
  - Unde venis Exotic matter?*
  - Unde venis Information mechanics?*
- DeepScience is sciencing of Pre-quantum & Pre-prequantum Nests of Nature that is rooted in Consciousness



# DeepScience is the Science across ZPE



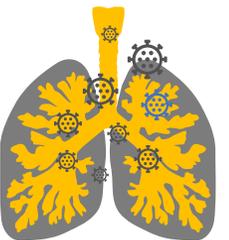
# Three Ontological Reversals while doing DeepScience

- Information is prior to Space Time and Energy
- Life is the Source of Matter

*“I have been looking for spontaneous generation for twenty years without discovering it. No, I do not judge it impossible. But what allows you to make it the origin of life? You place matter before life and you decide that matter has existed for all eternity. How do you know that the incessant progress of science will not compel scientists to consider that life has existed during eternity, and not matter? You pass from matter to life because your intelligence of today cannot conceive things otherwise. How do you know that in ten thousand years one will not consider it more likely that matter has emerged from life?”*

–Louis Pasteur

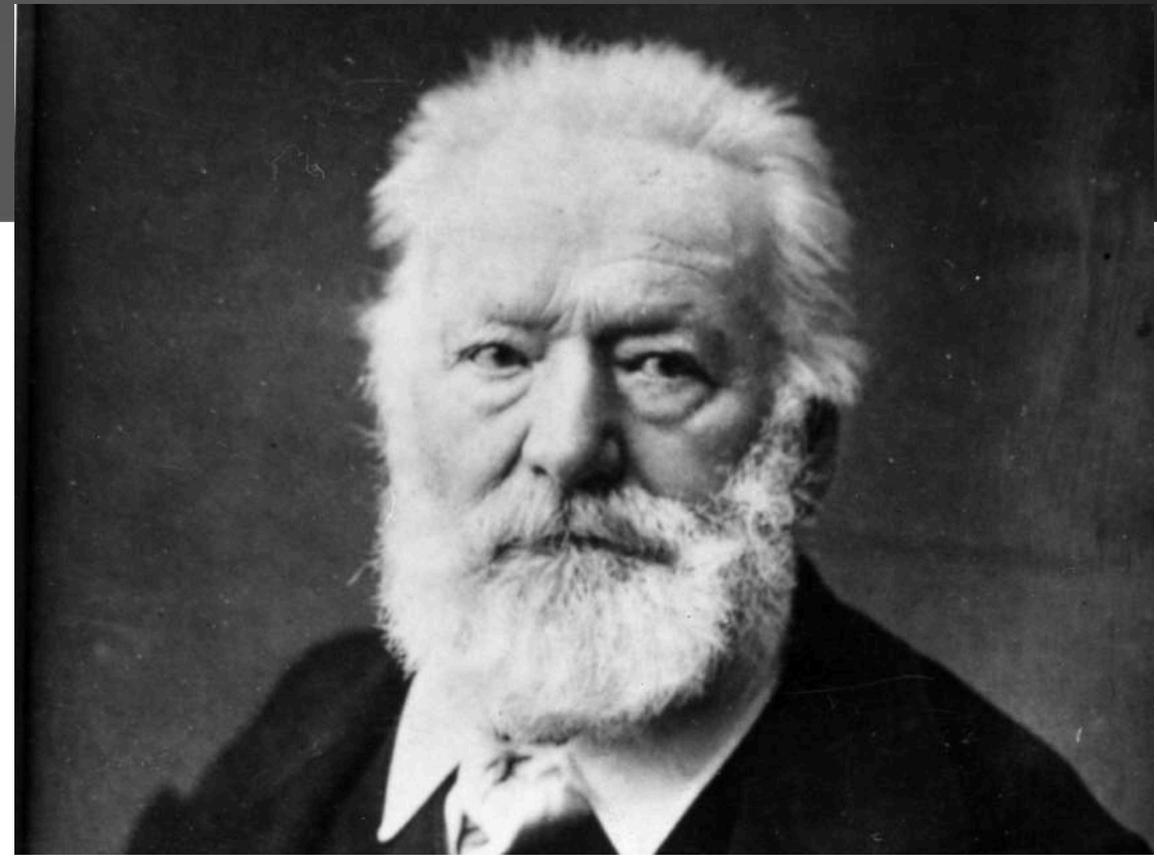
- Consciousness is not generated from Brain.  
Consciousness uses brain for its manifestation



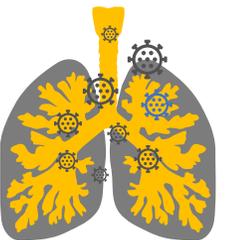
# Idea and Time

*“Nothing is more Powerful than  
an Idea whose Time has come”*

**Victor Hugo.**

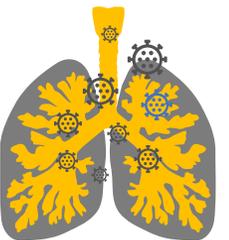


In Post-Covid situation it is Time to pick up 10 such Ideas whose Time have come



# 1-3/Ten Ideas whose TIME have come (On Ontological Reversal)

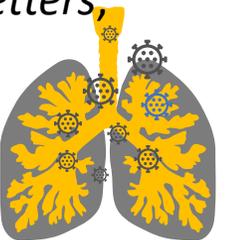
- Brain is Not the Source of Consciousness. Consciousness uses brain for its manifestation
- Material mechanics had followed Life's operation. Life is prior to Matter!
- Information had been prior to Space Time & Energy



# 4-6/Ten Ideas whose TIME have come (On Cell Biology)

- Prior to Immune system, cell has its specific defence mechanism
- Cell's Signalosome is the junction of Autonomous operations and Automated signal network
- Behaviours of a cell, a human being and the universe are interconnected by Dark Matter web\* and Neutrinos

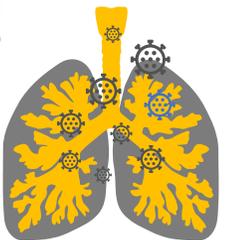
\* Ref: Burchett et al.(2020). **Revealing the Dark Threads of the Cosmic Web.** *The Astrophysical Journal Letters*, 891: L35.



# Pre-Immune Defense Mechanism of Cell

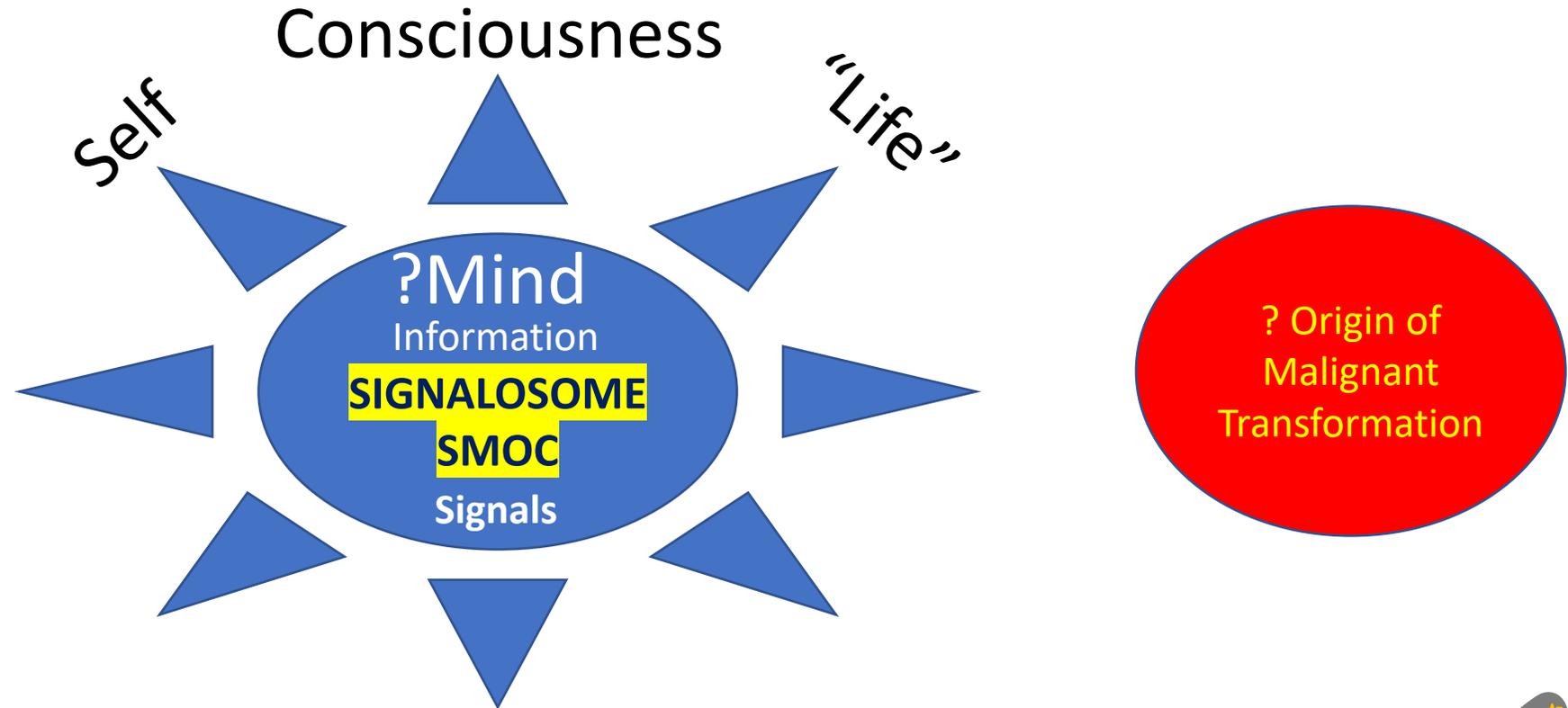
- Immune system has developed and come into action following or along with development of other Systems
- When there was no system, organ or tissue, the cell had to manage its own defense alone single-handedly
- Viral DNA/RNA, had been prior to their enclosure as 'life-form', as cell. Virus outnumber live entity in this universe and are constantly hostile to cell. There is no commensal\* virus! Infection occurs when cell's self-esteem, -confidence is low; elevation makes replication self-limiting
- When the Confidence and Esteem are elevated and sustained at appropriate level, the cells of the body produce molecules (might be called **self-esteem molecules**), which could sever the axis of exploitation of cell's DNA by the virus. – New Research Hypothesis, worth exploring!

\*Retrovirus has been reported to be “domesticated” in Placenta, which helps strengthening immunological barrier between Mother and Fetus – David Haig, Current Biology, <http://dx.doi.org/10.1016/j.cub.2012.06.002>

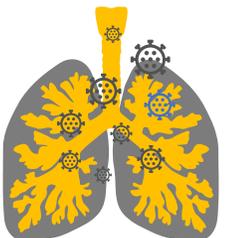


# Autonomy and Automation Meet at Signalosome

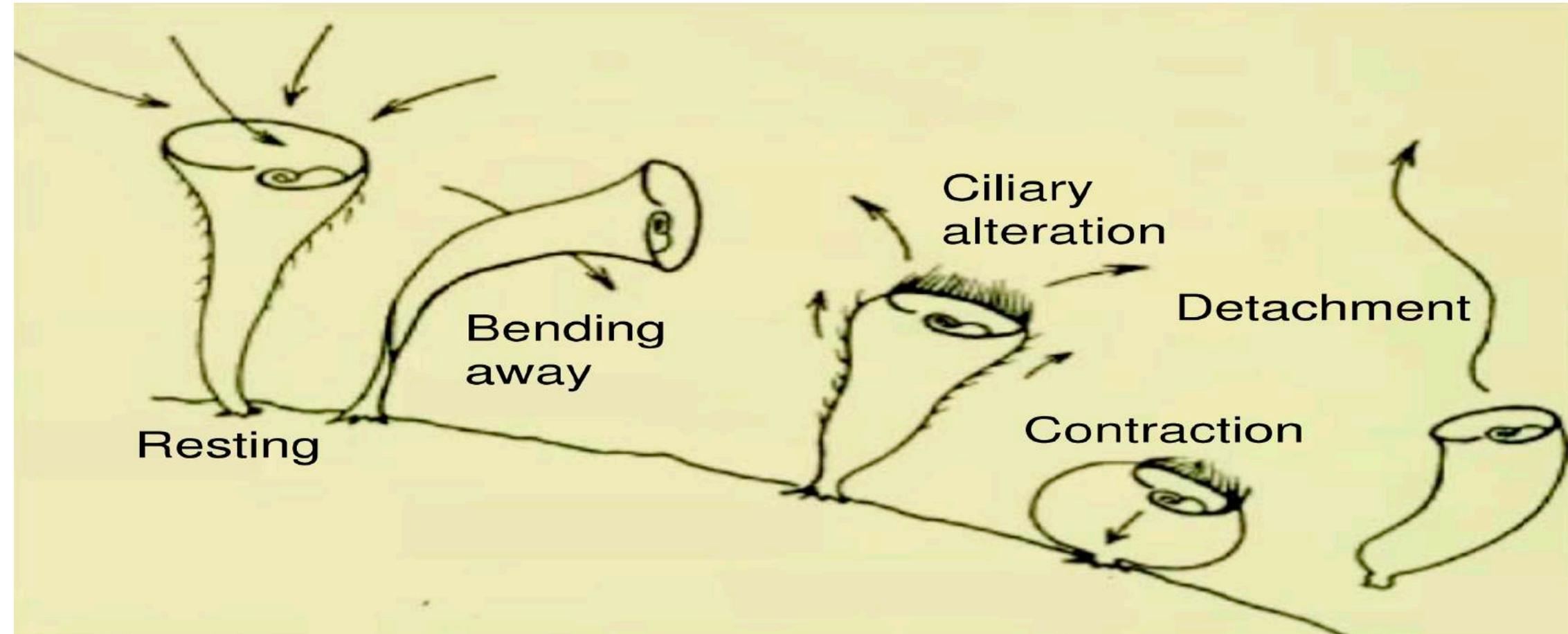
## AUTONOMOUS OPERATIONS INSIDE CELL



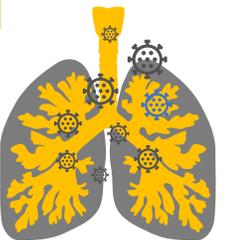
## AUTOMATED SIGNALLING SYSTEMS INSIDE CELL



# Brainless but Multi-headed!



A complex hierarchy of avoidance behaviors in a single-cell eukaryote, a sessile ciliate *Stentor roeseli*

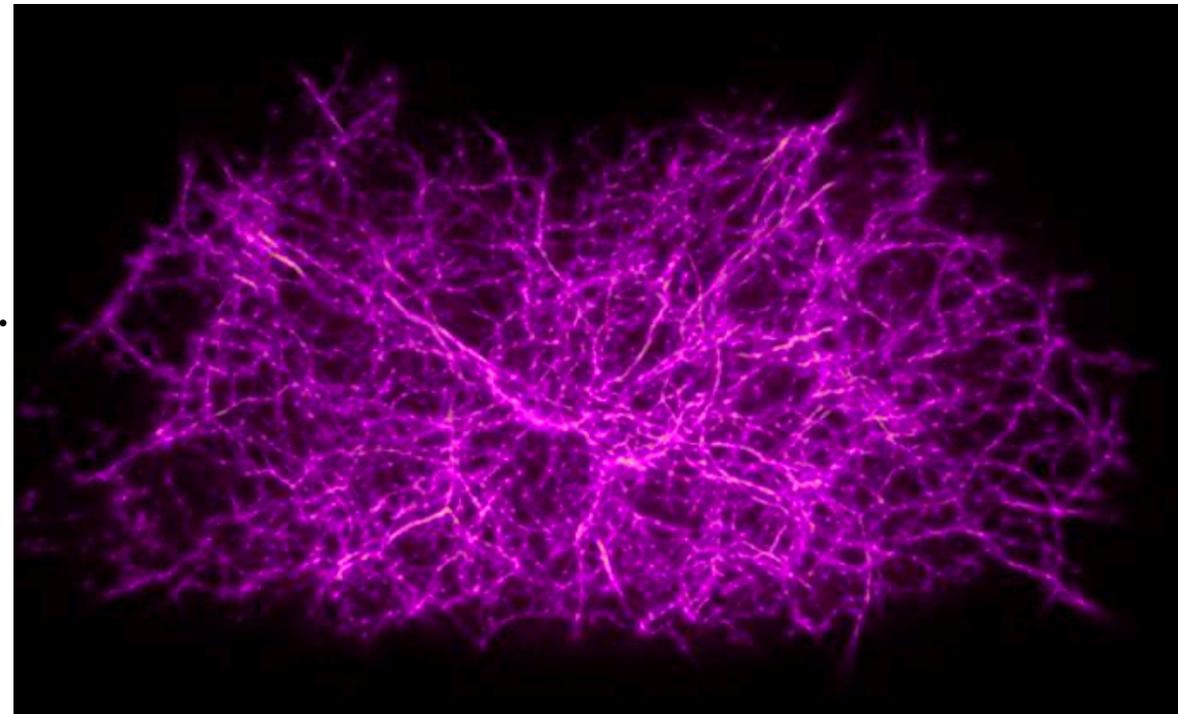




The intricate patterns of this yellow slime mould can help tease out the structure of the vast strings of matter that connect galaxies in the universe's cosmic web.

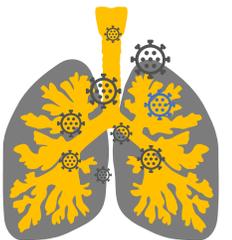
Scientists produced this map of the universe's cosmic web based on locations and masses of known galaxies and the lacy patterns of slime mould.

**Reference:** Joseph N. Burchett, Oskar Elek, Nicolas Tejos, J. Xavier Prochaska, Todd M. Tripp, Rongmon Bordoloi, Angus G. Forbes. **Revealing the Dark Threads of the Cosmic Web.** *The Astrophysical Journal*, 2020; 891 (2): L35  
DOI: [10.3847/2041-8213/ab700c](https://doi.org/10.3847/2041-8213/ab700c)



# 7-9/Ten Ideas whose TIME have come (In relation to AI & Cognitive Neuroscience)

- Intelligence is never Artificial. Requires Sentience, Life, Consciousness in addition to Information, Signal & Memory
- All cognitive faculties, Consciousness, Self, Life, Mind, although are nonlocal, can act locally through the organ Brain
- There are Layers between neural Signalling and Consciousness

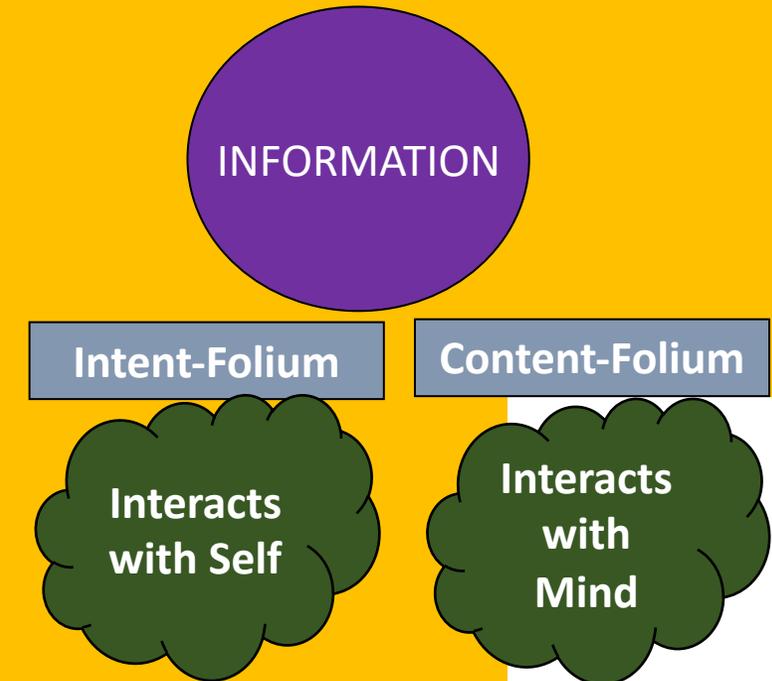
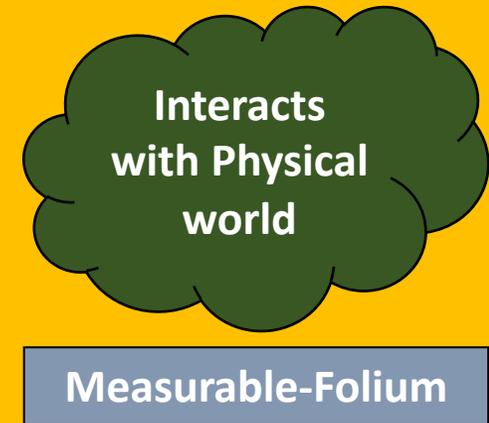
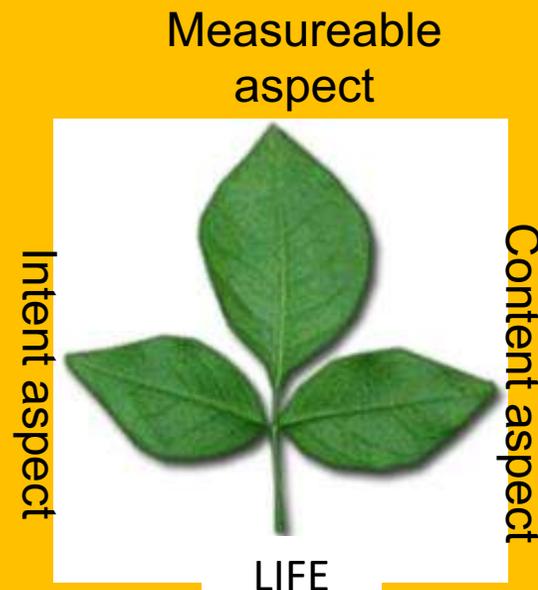


# 10/Ten Ideas whose TIME have come (In relation to Science of Information)

Signal is a space time construct of Information.

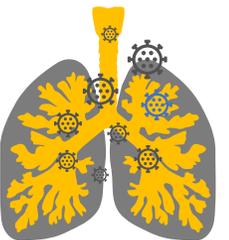
Information Geometry, in its Active Form, is like a Trifoliate leaf with a measurable folium, content folium and intent folium dealing respectively with Matter, Mind and Self.

The petiole of the leaf gets nourishment from 'Life'.



# Information is Important

- Correct Information is Important in this crisis.
  - Signal and Information are not Same.
  - Consciousness is Dumb without Information!
  - Science has been looking for an Equation between Energy & Information! No success yet!
- 
- Information & Energy are categorically distinct
  - Information is placed Vertically (ontologically) above Energy
  - No Equation is Possible between the Two
  - Information & Energy bear a Relationship
  - Information is the Father. Mind is the Mother. Space Time & Energy are their three Children!

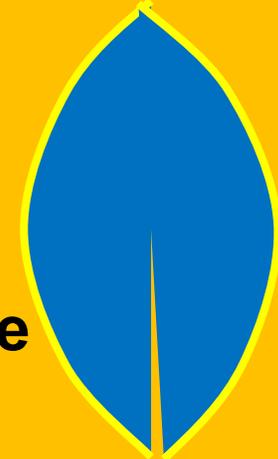


**Objective Pole (Signal aspect)**



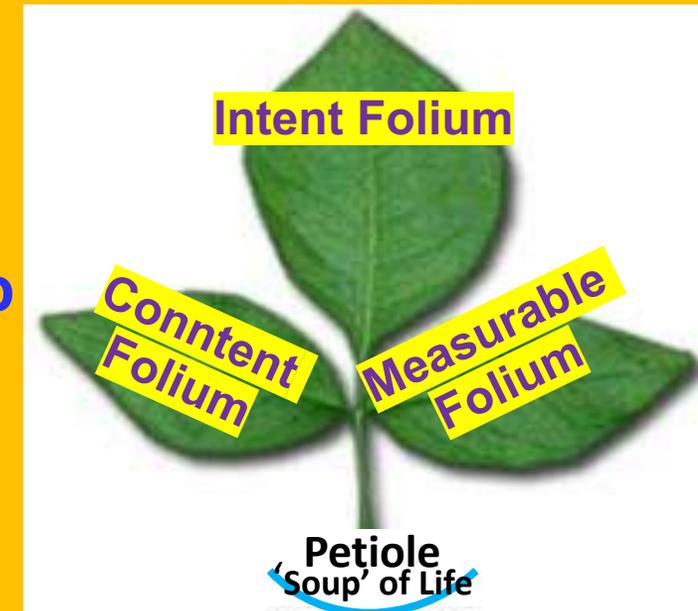
**Signal is a Space Time Construct of Information**

**Information is Bipolar,  
&  
Inactive in Bipolar phase**



**Subjective Pole (Symbolic aspect)**

**Inactive Information  
becomes Active,  
when the bipolar bud opens up  
as Trifoliate leaf**



.....Information-States.....

Space-Time  
construct of  
Information

Semantic  
Information

Gödelian  
Information

Information  
Manifold

Information  
Crystal

Factual  
Knowledge

Informative  
Knowledge

Formative  
Knowledge

Transformative  
Knowledge

Sublime  
Knowledge

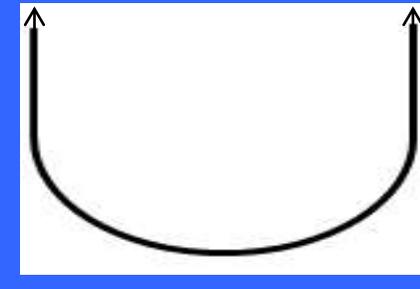
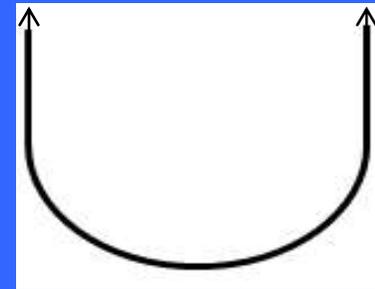
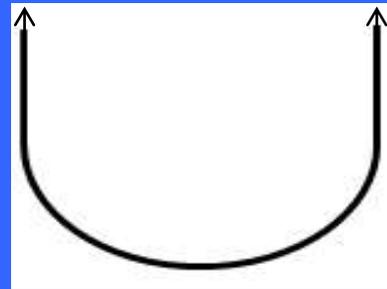
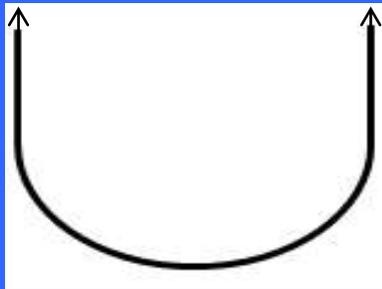
SIGNAL

INFORMATION

KNOWLEDGE

EXPERIENCE

WISDOM



Operation I

Operation II

Operation III

Operation IV

of ←-----→ of

←-----→ of ←-----→ of

MIND

SELF

LIFE

CONSCIOUSNESS

Ref: <https://juniperpublishers.com/pbsij/pdf/PBSIJ.MS.ID.555867.pdf>

# VARIOUS INFORMATION STATES

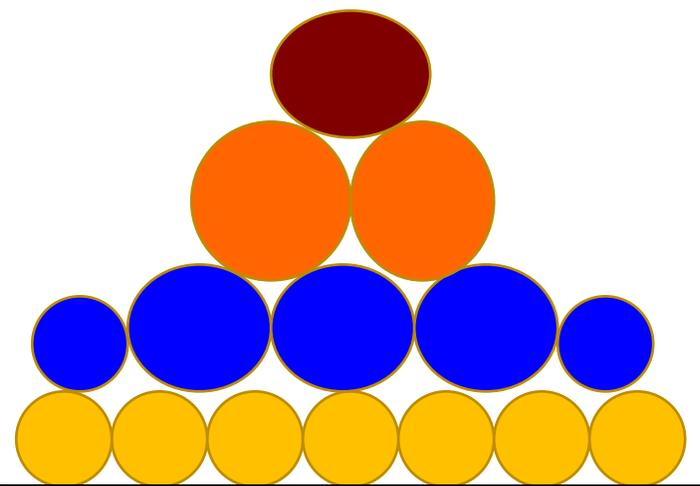
Wisdom



Point

Worldview Formation

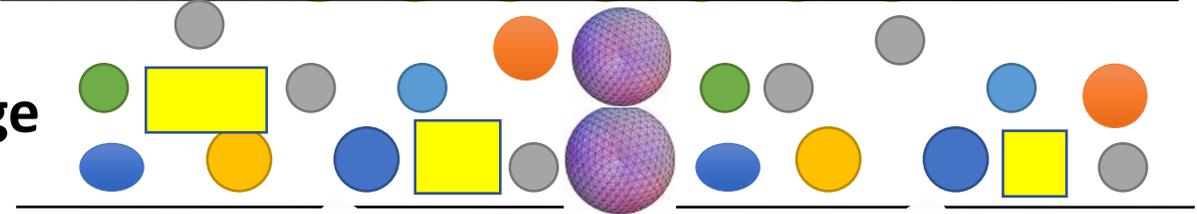
Experience



Symmetry manifolds

Theory Generation

Knowledge



Symmetry

Knowledge Formation

Information



Geometry

Concept Formation

Signal



Frequency

Perception

# Information Systems

## **Surface Information Systems:**

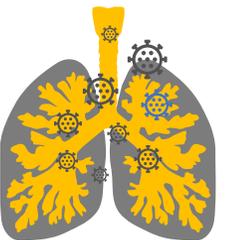
Information Systems of the Material world

## **Elemental Information Systems:**

Information Systems of the Viral / Cellular Genome

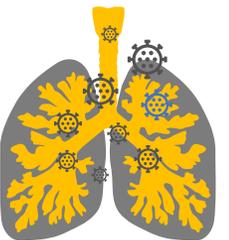
## **Deep Information Systems:**

Information Systems which is of Mother Nature's own



# Is Information Systems Maneuverable?

- Apple's systems (example of Surface Information Systems) is not easy to corrupt by programmed malware!
- Information Systems manipulation of Viral genes (example of Elemental Information Systems) is possible, used to create biological weapons
- Nature's own Information Systems (example of Deep Information Systems) is far more Perfect because of its Depth, its rooting in Consciousness!  
It cannot be Polluted, Manipulated and Corrupted in Absolute sense!



# Five-in-One Information Systems of Mother Nature

- **One** Supervisor

Sentient Entity (Consciousness's Representative within the Systems)

- **Four** Operational Hands

Conformon

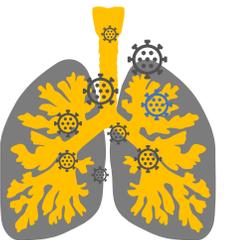
Photon

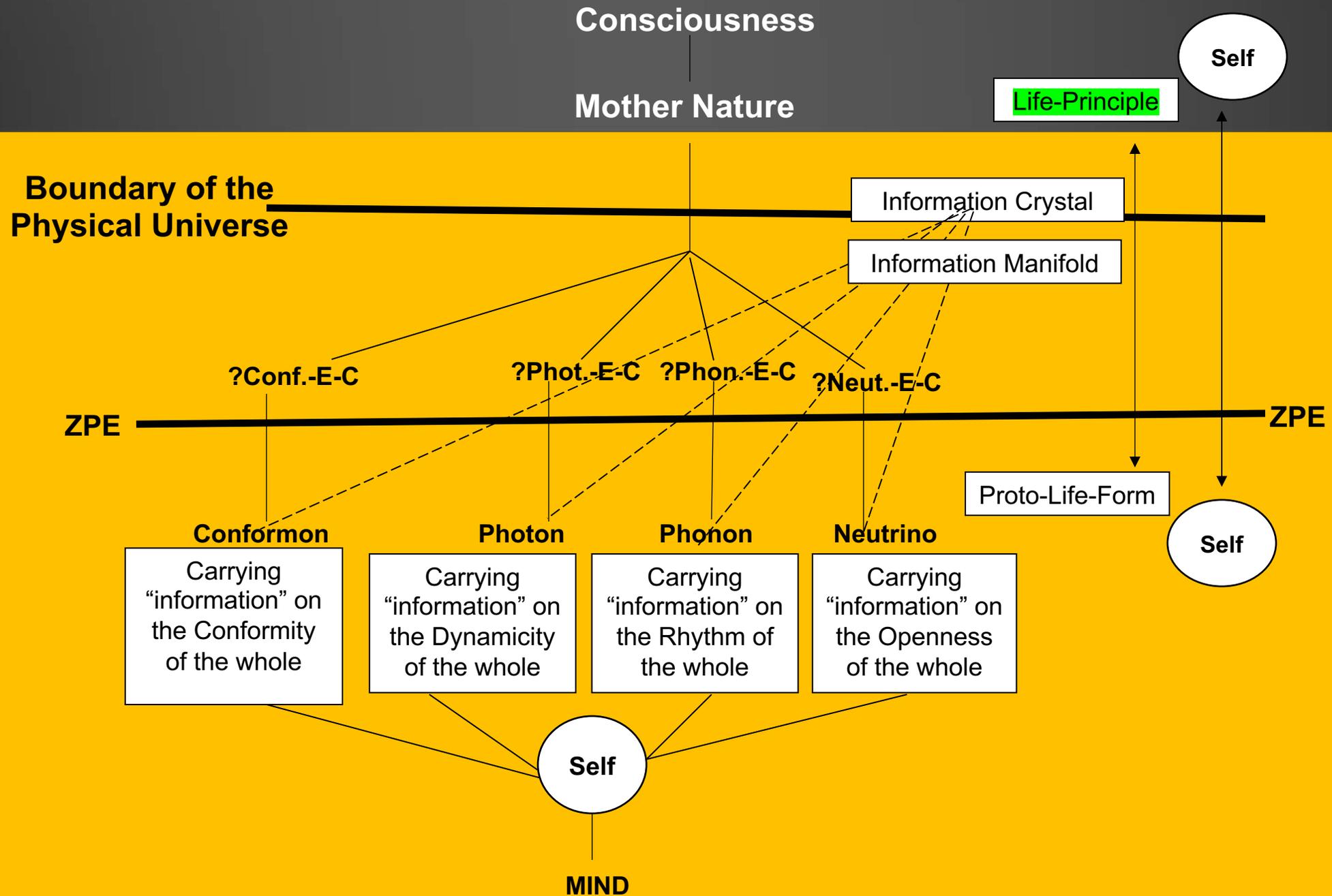
Phonon

Neutrino

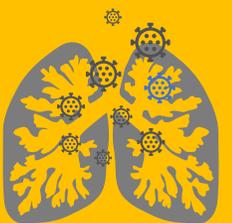
- This Structure and Operations make Information Holograph

<https://akmukhopadhyayconsciousness.com/pdf/Information-Holograph.pdf>



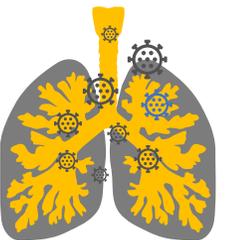


**The source and the Structure of Information Holograph**



# Neutrinos

- About ten thousand trillion neutrinos ( $10^{16}$ ) fly past human body every second without any consequence
- Neutrino is similar to Mythological Sage, Narada
- Na-rada! Nothing or none can stop him/it
- “Pauli’s effect” exemplifies effect of Narada’s presence
- Pauli predicted existence of Neutrino



# Activities of Neutrinos

- In two situations Neutrinos are Mighty

Early universe

Cognitively evolving brain

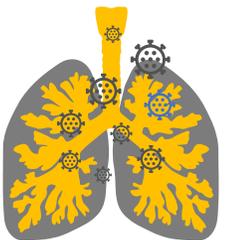
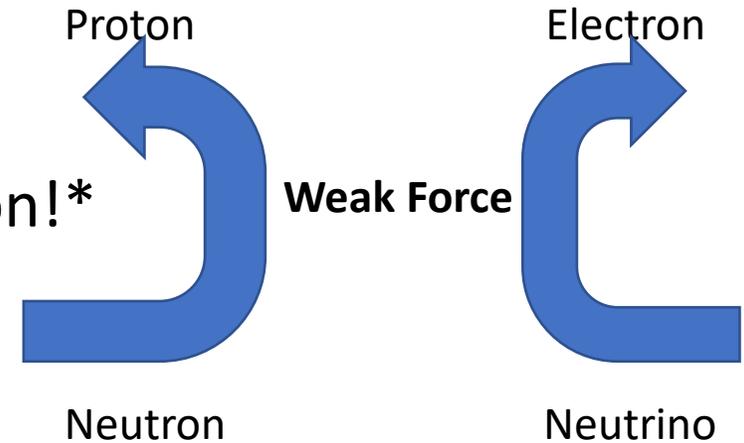
- Interaction of Neutrino and Weak Force generates Electron!\*

- Perhaps, changes Brain electrics!

- **Neutrino-Brain interaction:** Ten Research Hypotheses

Page 18-19 of <https://akmukhopadhyayconsciousness.com/pdf/Information-Holograph.pdf>

- **DNA-Neutrino Effect:** Phantom DNA Effect?



\*Ref: *The Millennium Bridge*, Conscious Publications, p. 167, 2000

# Post COVID-19 Psychology

- All war has a Psychological Component. In war with an invisible virus, this has a far big role. In new Worldview formation, Psychology is a major Player
- Demands for an open-ended Depth Psychology of Deep Ecology
- Using the language of Ken Wilber, this is not ego-centric, ethnocentric, geocentric or even anthropocentric!  
This is cosmo-centric and numinocentric psychology
- This psychology has more proximity to Transpersonal and Spiritual Psychology



# Post COVID-19 Psychology

In contrast to many renowned psychiatrists, the author expects that the number of clinical cases of Depression, Fear, Divided Self and Schizophrenia will likely to be low in post-COVID time to come, since the people who have survived this fierce pandemic phenomenology, have seen the world, experienced death while live and developed a resolve for the unity of self with the nature and God.

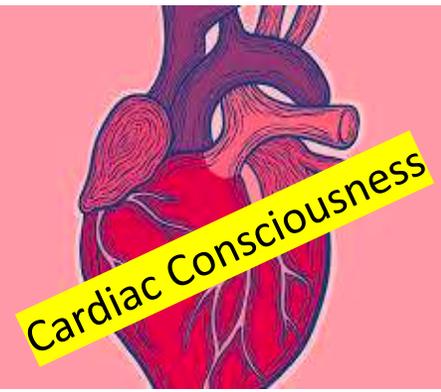


# Post COVID-19 Psychology

## Emphasis on Cardiac Consciousness

- Heart is the only Syncytial organ of our Body, with millions of cardiomyocytes and 40,000 ganglionic neurons and complex nerve plexus in it
- Does heart have property to nurture Collective consciousness of millions of cardiac myocytes? Aided, by ganglionic neurons?
- Like Neuro-centric consciousness, could there be a Cardio-centric consciousness?
- Can Heart function as a “Sensor”?
- Like individual single cell, can this syncytial mass “sense” deep recesses of Nature?
- Is the Heart centre for "Feelings", while the brain deals with its Emotional outcome?
- Is there any evidence of storage of Episodic memories in the Heart?
- What is the physics of Heart-brain Entrainment and Enactment?

Look forward to author's forthcoming Paper on this topic by June, 2020, from  
<https://akmukhopadhyayconsciousness.com/latest-paper.php>



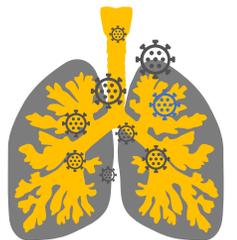
# Two essential elements of Post COVID-19 Psychology

- A reasonably Stable framework of the Systems Psyche [1],
- which is although cosmo-centric, but simultaneously rooted in Molecular cell Biology [2,]



## References:

1. Mukhopadhyay A K. Systems Psyche: Its Structure, Operation and Possible Molecular Links. Psychol Behav Sci Int J : PBSIJ.MS.ID.555565, 2016.
2. Mukhopadhyay A K. The Ladder of Cognition: Abstract Operations, Molecular Biology, Systems Science. Ann Psychiatry Ment Health 5.4:1107, 2017.
3. Mukhopadhyay A K. Cognitive Canvas: Molecular Embroidery, Fabric and the Base". EC Psychology and Psychiatry 7.7: 428-439, 2018.



# Role of Three Top Journals SCIENCE, NATURE & CELL

## Mutual Relationship

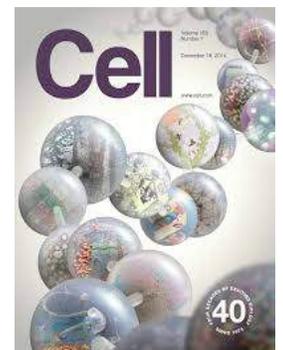
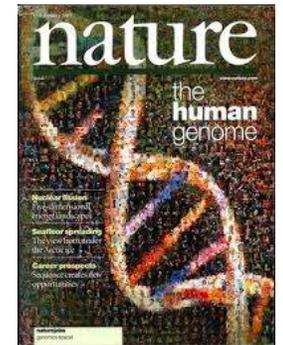
- *Science* investigates nature's ultimate
- *Nature* is interested in dialogue with the world to reveal Equations and Relationships
- *Cell* enquires on Systems cell as a Model to verify Systems Holism

## On Three Fundamental Questions!

- *Nature's* goal is to discover: What is this World?
- *Science* seeks answer for the Ultimate, the Absolute; What is God for Science?
- *Cell's* ceaseless Enquiry is on what the Cell is! What am I?

## In Formation of New Worldview

We expect Three journals to live up to their respective Mark





# Post COVID-19 Economics

## What it would be like?

- Post-COVID-19 **new economy would be 'Inverted'** meaning this would begin in individual at pre-micro level
- **This will be Syncytial in nature in contrast to being Networked**  
In a syncytium, the individual is a part of a large syncytium that operates as a whole as we see in heart constituted by millions of cardiac myocytes. In contrast, the brain is a networked organ of hundred billion neurons that operates in modules and it is rare to see brain functioning as a whole
- In this new economy, there will be **Uniformity in Multiple forms** where individualism is not in collision with universalism, rather **its guidance comes from universalism**
- **Finally, this economy will be Dark Energy-Sourced**  
At present, there is no equipment, device, artefact or instrument, which could perform this feat! Only live-entity can engineer dark energy into visible energy. This is, therefore, a pre-premicro economy  
To demystify this issue we require sciencing of pre-quantum and pre-prequantum nests of nature
- New economy **will emerge from vertical depth of nature** from the Individuals who would be dwelling in it!



# Post-COVID-19 Leadership

- Censuring own/other's "Will" (Tutored/Free) not to pass as Nation's/Nature's/God's Will
- Three-term Embryonic Leadership; Leading with Head, Heart & Guts,
- Turning Collective unconscious to Conscious state of Confidence
- Synchronizing Nation & Nature in Real Time with Number of citizens by means of simple Ritual
- Encouraging each Follower as a potential Leader ("Inverted Leadership")



# “From Alone to All One”

The emerging new Worldview is of the unbroken wholeness, the *Akhanda* Worldview, that accommodates Science, Spirit (Consciousness) and the Humanity in harmony with the entire ecosystem of flora and fauna of the multiple universe(s) of the Systems Multiversity!



Perhaps the nature has a larger picture in vision in initiating such a devastating Corona pandemic. The world would not be the same/similar as before!

Humanity is at the threshold of a new formation.  
The journey of *Homo sapiens* to *Homo spiritualis* is now on its crucial Turn!



*Thank You*