International Journal of Informational Integrative Medicine
IJIIM
Web: www.ijiim.com/ E-mail: editorijiim@centromii.it

Integration of Quantum Epigenetics with the Biological Laws of the Germanic New Medicine

Autor

Luigi Calcante, Italy
Antonio Manzalini PhD, Italy (codice ORCID 0000-0003-1633-3099), manzalini@gmail.com

Received on: 02/10/2025
Accepted for publication: 15/10/2025 Published: 22/10/2025
Open Access Article BY THE EDITORIAL TEAM

Doi: http://dx.doi.org/10.5455/IJIIM.12

Abstract

The first main goal of this paper is to describe for the first time, to the best of the authors' knowledge, the scientific avenue of Quantum Epigenetics, which aims at integrating: Epigenetics, Quantum Physics and Psychology. The main working assumptions at the basis of Quantum Epigenetics are:
1) the presence of ancestral quantum information stored in the genetic heritage of cells (e.g., DNA, RNA, Chromatin, mitochondrial DNA… etc);
2) the possibility of perceiving said ancestral quantum information by an individual in particular states of consciousness (e.g., extended state of consciousness);
3) the possibility of consciousness to store, elaborate and transmit said quantum information capable of modulating gene expressions, without involving any alterations in the DNA sequence The second main goal paper is to integrate Quantum Epigenetics with the Biological Laws of the Germanic New Medicine, starting from the analysis of chromatin as a cellular brain and then analyzing the organ brain and the encephalon in its correlation with the embryonic layers and with phylogeny.

Specifically, the paper correlates the local symmetry breaking generating NG bosons (where it is assumed that the quantum information is condensed in them and stored in DNA, RNA and chromatin), with the conflict shock of the first biological law and the action of Gauge bosons as a repair of the symmetry break with the biological processes described in the second and third law. This correlation allows not only to integrate but also to overcome both Quantum Epigenetics and Germanic New Medicine by uniting and harmonizing all the planes of the human being, physical, psychic, mental, anemic and spiritual, where the action of restoring symmetry of Gauge bosons creates an expanded state of sublime spiritual Consciousness

Key words:

Biological Laws of the Germanic New Medicine, Consciousness, Epigenetics, Ancestral Quantum Information

Citation for this Article

Calcalte L. Manzalini A., ***Integration of Quantum Epigenetics with the Biological Laws of the Germanic New Medicine, IJIIM. 2025; 1(2): 65-74. doi: 10.5455/IJIIM.12***

1 | Introduction

Biophysics applies the theories and methods of physics to understand how biological systems work.

In Biophysics living organisms are seen as very complex open systems exchanging energy, matter, and information with an external environment.

This model is compliant with the definition of dissipative structures, proposed by the Nobel Price Ilya Prigogine, so that living organisms can be considered as dissipative systems far from thermodynamic equilibrium. These exchanges of energy, matter, and information are carried out through non-linear interactions of billions of different biological components, at various space-time scales, up to the quantum level. Infact, at a fundamental physical level, these flows and exchanges appear to be mediated by quantum fields and wave oscillations, which interfere, driving life away from quantum equilibrium.

Building upon these assumptions, we adopt the quantum model of consciousness as a quantum wave field associated to the living matter quantum wave field [1]. The potential associated to this consciousness field acts as "active living information," guiding the biological and psychological dynamics of the organism. This active living information is stored and elaborated in all cells of the body, giving form to life and regulating its processes.

On the other hand, it is also well known the theory according to which humans share a common basis of bio-psychological information (which is likely related to the collective unconscious defined by C.G. Jung): in fact, it is believed that originated in East Africa, according to most archaeologists, between 100,000 to 300,000 years ago. Already today, ancestral DNA analysis, for example, can trace our genealogical line, from a geographical point of view, of a few thousand years.

This is basically done only by reading the biochemical sequence of the DNA.

What cannot be read biochemically (as it is unobservable from a quantum physics viewpoint) is instead the quantum ancestral information contained in the overall cellular heritage: specifically, it is argued that this unobservable information may store thoughts, emotions and states of consciousness of our ancestors from thousands of years ago.

We argue that the ancestral quantum information memory in the genetic heritage of cells has his compendium in sensible biological problems. The programs that are recorded in our genetic heritage are responsible for all vital processes.

Since the birth of Quantum Physics, there have been several attempts at applying quantum physics to living organisms. One of the first remarkable examples is when, in 1944, E. Schrodinger wrote his book "What is life?". Today, Quantum Biology is leveraging on rich literature reporting advances in applying quantum physics to living organisms.

Today the Gauge theory is a powerful framework that uses the principle of local symmetry to describe the fundamental forces and particles of nature. The requirement of gauge invariance dictates the existence and properties of the force-carrying particles and governs their interactions with matter particles. We argues that these principles can be extended to living matter. Specifically, Quantum Field Theory (QFT)[1] [2] is a Gauge field theory overcoming of the first limitations of Quantum Mechanics. This paper argues that the extensions of QFT to biology is a very promising way to continue these research

[1] A gauge field theory is a special type of quantum field theory, in which matter fields (like electrons and quarks, which make up protons and neutrons) interact with each other via forces that are mediated by the exchange of vector bosons **(like photons and gluons, which bind quarks together in nucleons)**.

efforts. In fact, QFT is recognized as a fundamental theory in quantum physics, at the basis of the Standard Model: it provides an information-theoretical reinterpretation of physical reality confirmed by several experimental validations. In particular, Quantum Electro-Dynamics (QED) [3] is a QFT model describing mathematically not only all interactions of light with matter but also the interactions of charged particles.

Next sections will provide a brief overview of the very basic principles of QFT and QED in order to allow the reader to understand some basic concept related to the storage, elaboration and sharing of quantum information of a living organism.
We will then proceed to examine the evolution of life on earth, starting from the cellular brain and continuing with the organ brain and the correlation between the encephalon and the embryonic layers in the light of phylogenesis. We will end by correlating the description of the biological laws of Germanic New Medicine with the quantum principles mentioned above.

2 | Quantum Epigenetics

Let's consider an example concerning the genetic heritage in the cells. Chromatin refers to a mixture of DNA and proteins that form the chromosomes found in the cells of humans and other higher organisms. In fact, nuclear DNA does not appear in free linear strands; it is highly condensed and wrapped around nuclear proteins in order to fit inside the nucleus. Many of the proteins — namely, histones — package the massive amount of DNA in a genome into a highly compact form that can fit in the cell nucleus. It is argues that the vibrational, thermal, electromagnetic, nuclear etc. bosons
modes present Chromatin, together with the ones in DNA and RNA, may represent quantum information of an individual.

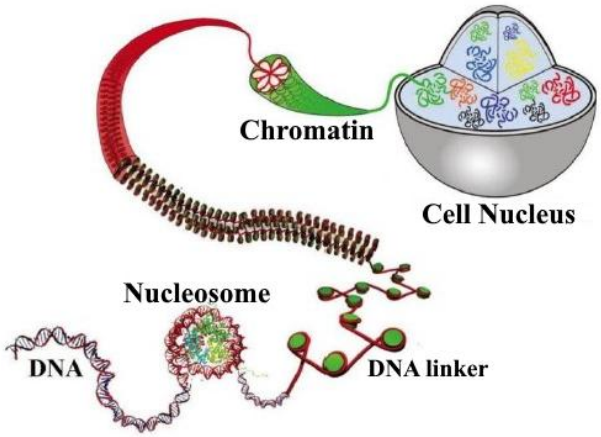

Fig. 1 – Structures of the genetic heritage in a cells
(picture credits: The 3D structure of the genome – Mapping Ignorance)

It should be highlighted that quantum information (as demonstrated by the related theorems) cannot be observed and deleted, as demonstrated also by theorems of quantum physics. This has two remarkable consequences. First, the fact that quantum information cannot be observed means that is it not enough knowing the genetic information in terms of DNA (and RNA) to characterize an organism, but there is further information (hidden to our current means of investigation) influencing forms, functionalities and states of life. Second, the fact that quantum information cannot be deleted is in line with observational clinics and psychology which consider the hypothesis of a transmission between generations of memories.

There are interesting references to Psicogenetics of J. Piaget. Also, the genosociogram proposed by the French psychologist Anne Ancelin Schutzenberger (1919-2018) which proposes the idea of a transmissible family unconscious [4], appears relevant. In 2014, for example, the neurobiologist Isabelle Mansuy (1965) of the University of Zurich conducted a unique experiment on mice, demonstrating the genetic transmission of traumatic memories up to the third generation through m-RNA coding.

As another example, the American psychiatrist Ian Stevenson (1918-2007) devoted his research to the study of children who spontaneously presented memories of what seemed like previous lives [5].

The hypothesis of the transmission of memories between generations is supported by a particular case of primary hypothyroidism, usually of autoimmune type, called Hashimoto's thyroiditis.

First diagnosed in 1912 by Hakaru Hashimoto, a Japanese doctor who found a higher percentage of women suffering from it than men (8 women, 1 man) and a higher percentage of Japanese women than the rest of the world. (9 women,1 man). In this type of hypothyroidism there is a reduction of the gland and therefore a reduced volume and reduced functionality. Hypothyroidism is always a conflict of giving up sociality; in fact, serotonin levels are often low. Serotonin is also a social hormone, which means that low serotonin lowers self-esteem, and low self-esteem also leads to subordination to others, resulting in lowering of serotonin. Behaviorally, hypothyroid people no longer expect any reward from life and always have great disappointment. At a conflict level, in 1912, when Hashimoto spoke for the first time of thyroiditis, the social conditions of Japanese women were of great subordination first to the father and then to the partner, poor sociability and low self-esteem. With the persistence of these conditions, thyroiditis was passed down from generation to generation, confirming the hypothesis of transmission of memories between generations. This is further confirmed by the fact that today the changing living conditions and social respect of Japanese women have greatly reduced the incidence of this disease. In the pack, the pack leader has high serotonin and testosterone, while the second –ranking wolves, who have lost the hierarchical battle to become a pack leader, have low serotonin and testosterone and therefore do not rebel.

This means that we are in the presence of a biological emergency program, the renunciation of sociality of thyroiditis, which in the pack becomes a biological way to shape the conscience and give an imprinting to the social organization.

3 | The Organ Brain

The organ brain [6] is still found today in every plant and in every tree. The same thing goes for every animal and every human being. The encephalon, or brain of the head, is an organ that mirrors the brain of the organ; therefore, we will see the control relays situated in the brain in the same order in which the organs of the body are situated.

For instance, the brainstem relays are arranged in a counterclockwise direction starting from the right dorsally and describing an almost complete circle until they reach the left dorsally. The nucleus of every cell in our organism records and stores current and past biological programs. The alterations of the brain of the head not only occur in parallel but also at the same time as the alterations of the organism hut also coincide with alterations of the chromosome. In the case of Down syndrome there is an alteration of chromosome 21. But if the alteration is temporary, provided that the conflict does not continue, it proves transitory and tends towards normalization.

Regarding the organ brain, the example of slaughtering chickens by cutting off their heads is enlightening. It could happen that a headless hen would still rise for many meters. This cannot be explained with a generic unconditioned reflex because the flight process is so complex that one must necessarily assume the existence of a coordinated organ brain capable of governing it. It is therefore considerable that in each organ there exists a sort of brain. When the complexity of individuals requires a superior general coordination, we watch the formation of the encephalon.

The brain also has an extremely long formation that occurs in correspondence not only with the cellular complexity of living beings but also with the formation of the embryonic layers. The first functions of the brain were the control of the skin and the gastric tube. Every cell in every organ is nucleated.

All cells are connected to each other and so is the nucleus of the cells. There is not only an organ brain but there is a mini brain for each cell, and it is made up of its nucleus. Each mini brain is connected to all the others mini brains in the body, and we can consider these little brains as a second brain.

This means that in the event of a biological conflict, a central brain region that controls a certain organ, and so is in correspondence with the region of an organ brain, becomes edematous forming what is called Hamer focus, while in the organ region there is what is called onco-equivalent disease or cancer. In case of a sensory stimulus the organ brain sends information to the central brain and receives a motor response from it.

4 | Ontogeny recapitulates phylogeny

This section deals with Ontogeny recapitulates phylogeny [7]. The beginning of life on Earth is estimated

to be around 3.2 billion years ago. The first living being, the simplest of all, excluding viruses as parasites, was born in the sea of primordial soup and was a unicellular marine being, a bacterium.

From a scientific point of view, we consider a living being to be anything that is capable of feeding and reproducing.

The first life forms capable of subsisting in this primordial soup were bacteria, which multiplied to the point of becoming the rulers of the entire planet. We must point out that even today bacteria are the dominant beings on earth, in fact it was possible to weigh them, their overall weight would be greater than that of all other living beings, on earth, both plants and animals.

The greatest change in our evolution occurred about 400 million ago.

The lands emerged from the waters and at the same time the concentration of oxygen in the air increased. Oxygen was a toxic and polluting substance that the green and blue bacteria has transformed into a substance essential for evolution and for life itself.

1) Endoderm.

As we have previously seen, a living being is considered an organism capable of feeding and reproducing. Without giving a detailed description, let's say that the gastric tube, from the mouth to the anus, the pulmonary alveoli, the parenchyma of all the glands of the body and, in the encephalon, the brainstem, belong to the endoderm. We find in this embryonic leaflet everything that allows us to survive individually, eat and breathe, together with the functioning of all organs and systems through the hormones produced by the various glands, and the survival of the species, specifically with a particular type of glands, the gonads. If we look at phylogenesis, we can hypothesize that 3.2 billion years ago, the first bacteria possessed the endodermic embryonic layer because they possess the ability to feed and reproduce. The same embryonic layer is even more so found 2.8 billion years ago with the beginning of the polarity of invertebrates, because they were clearly able to survive and reproduce.

2) Mesoderm.

400 million years ago, with the emergence of the land, our animal ancestors found themselves having to face a whole series of problems concerning survival.

First of all, the need to protect from the sunlight is not filtered by water.

It is therefore conceivable that an ancient mesoderm, directed by the cerebellum was added to the endoderm, directed by the brainstem.
This included the lower part of the skin, called the dermis or chorion, three internal skins such as pleura, peritoneum and pericardium and, when dealing with mammals, the mammary gland, invaginated into the dermis, with the mutation of sweat glands into galactophorous glands. If with the endoderm we talk about individual survival through its own vital functions, with the ancient mesoderm these skins act as integrity protection from external attacks.
However, there is also a recent mesoderm directed by the cerebral medulla, which is a further median layer that adds to that of the cerebellum, in order to solve the second problem of life on land, the absence of hydrostatic thrust or action of gravitational force.
While underwater, as we were saying, by Archimedes' law, we receive a push from bottom to top depending on how much liquid we displace, on earth gravity weighs completely on us and this makes it essential to reinforce our structure through the skeleton, striated muscles, nerves and tendons and a connecting system that nourishes the osteoarticular system through blood vessels and lymphatic vessels.
It is therefore possible to think that the need to protect we and the need to establish relationships with the outside world have caused nature to create these two parts of the same embryonic layer.

3) Ectoderm.

The outer embryonic layer is directed and controlled by the cerebral cortex. It is therefore logical to assume that the third germ layer depends on the formation of this thin layer of nerve cells that is found above the white matter. Among the cortical areas are the motor cortical area and the sensory cortical area. The organs directed by the cerebral cortex include the external part of the skin, or epidermis, which is the largest sense organ in our body, and all the internal parts of the body where there is external epithelium, which, when found inside, is called squamous epithelium. Being closely connected to the sensory part of the cortex it is clear that it concerns the information that we obtain from the outside and the information that we receive from the performance of our internal functions (proprioceptive sensitivity).
It is therefore presumable that the third layer was added at the time when social relations of the various species required the acquisition of new information and a more elaborate collaboration and social life. Presumably in the last 100 million years, when the cognitive revolution gave humans self-awareness.

5 | Consciousness and Expanded States of Consciousness

Consciousness has been defined in many ways, but in general it can be described as the ability of a living organism to sense, perceive the environment, extract, store, elaborate and share related quantum information in order to create that deep biological knowledge which is necessary for actuating self-adaptive behaviors.
This definition of consciousness is perfectly in line with the so-called principle of minimal free energy. This principle has been already proposed for modeling biological nervous systems and the brain [8- 11].
In these cases, the minimization of the variational free energy describes how a biological system changes its internal states so that they become the most suitable under the influence of external states of the environment. In doing so, the system is implicitly learning a generative model of the environment: the better is the model in making predictions the lower is the variational free energy.

Minimizing variational free energy ensures that the brain becomes a good model of its environment: this has again a striking correspondence with the concept of "double" described in terms of QFT in [12].
In [1] a new model of consciousness of living organisms is proposed. The model is based on an extension of the de Broglie-Bohm theory, which is also meeting the principles of QFT. In particular, the article describes consciousness as a special quantum wave field whose associated potential is elaborated as active quantum information by living organisms. This is opening the way to the next research steps provided by this paper.
As mentioned the main working assumptions at the basis of Quantum Epigenetics are:

1) the presence of ancestral quantum information stored in the genetic heritage of cells (e.g., DNA, RNA,
Chromatin, mitochondrial DNA… etc);

2) the possibility of perceiving said ancestral quantum information by an individual in particular states of consciousness (e.g., extended state of consciousness);

3) the possibility of consciousness to store, elaborate and transmit said quantum information capable of modulating gene expressions, without involving any alterations in the DNA sequence.

As another example, it is mentioned Past Life Regression (PLR). PRL is defined as a form of hypnotherapy which takes an individual back in time to their hypothetical previous lives or incarnations by accessing memories and experiences that are normally hidden in their (sub)conscious mind. There is not clear evidence that the regression brings to real previous lives or incarnations: lives and characters can be just symbolic representations of some states of the (subor un-) conscious due the fact that the individual becomes able to access memories of ancestors stored (even non-locally) in the cell's organism in form of NG bosons.
In order to apply QFT and QED to dynamics to the Germanic New Medicine, we turn to the biological laws.

6 | First biological law of the New Germanic Medicine: the iron rule of cancer

First criterion: Every "disease" hereinafter called Significant Biological Special Program (SBS), originates from a DHS (Dirk Hamer Syndrome), which is unexpected, highly acute, and isolating conflict shock that occurs simultaneously in the psyche, the brain, and on the corresponding organ Second criterion: the content of the conflict determines which organ will be affected and from which area of the brain the SBS will be controlled. (organic alteration, tumor, necrosis, ulcer, alteration of functions).
Third criterion: every SBS runs synchronously on the level of the psyche, the brain and the organ from DHS to conflict resolution (conflict lysis CL) including epileptic/epileptoid seizures at the height of the solution phase, renormalization and return to normality (normotonia).
In GNM terms, a DHS is an emotionally distressing event that we could not anticipate and for which we are not prepared, we are caught off guard. Since the conflict is instantly activated in the psyche, in the brain and in the correspondent organ we speak in GNM of biological conflict rather than psychological conflict.
We can consider the conflict shock mentioned in the first biological law as a symmetry breaking operated by NG bosons. These NG bosons induce changes in gene expressions without changes in DNA (genotype) but with changes in phenotype by modifying the information in chromatin. An action of the Gauge bosons is hypothesized as a symmetry-restoring action of the symmetry breaking. We find a clear correspondence

in the second biological law (the law of the two phases) which describes simpaticotonia and vagotonia, and. the third biological law (the ontogenetic system of tumors). from this title alone, one can understand the profound revolution of GNM. What used to be called diseases are now considered special biological programs contained in DNA, of not only humans, but also animals and plants.

The second revolution is made by dividing the brain into an old brain, which is composed of the cerebellum and the brainstem, and into the new brain, composed of the cerebral cortex and the cerebral medulla.

The classification system used in traditional anatomy is therefore revolutionized. The paleoencephalon serves to preserve the individual and racial life, while the neoencephalon serves to establish social relationships and with the surrounding environment. But this is not just a school division. If the human (and the animal) brain is really a computer formed over millions of years in the human organism, the corresponding body organs must also coexist and cooperate with the brain from an evolutionary perspective.

Embryologists divide embryonic development into three germ layers: endoderm or inner germ layer, mesoderm or middle germ layer, ectoderm or outer germ layer.

In the NMG the mesoderm has a first correlation in the cerebellum of the paleoencephalon and a second correlation in the cerebral medulla of the neoencephalon. This subdivision is supported by the behavior of the corresponding organs in the case of Significant special programs (SBS), and therefore in case of cancer or equivalent oncologic diseases.

A) In the active conflict phase (simpaticotonia):

1) in the paleoencephalon, (cerebellum and brainstem), there is a phase of simpaticotonia or active conflict, and cell proliferation with tumor and proliferation of mycobacteria.

2) in the neoencephalon (cerebral cortex and cerebral medulla), there is a cellular reduction of the tissues with necrosis in the cerebral medulla organs and ulceration in the cortex organs.

B) In the conflict resolution phase (vagotonia).

1) paleoencephalon, tumor reduction through the work of fungi and mycobacteria (TBC)

2) neoencephalon, cellular proliferation for tissue restitution, increase of bacteria and viruses.

As can be observed in this subdivision, there is an increase in cells in simpaticotonia in the paleoencephalon and a reduction in cells in the neoencephalon, and they reverse in vagotonia with reduction of the tumor of the paleoencephalon and cellular proliferation in the neoencephalon. It is thus completely logical and sensible the biological action and the relative classification.

The actions described in the third biological law finds its counterpart in the action of restoring the symmetry of Gauge bosons, that create an expanded state of sublime spiritual consciousness, as a state superior to biological psychic laws.

Alchemical laws harmonize the exchange of restoring global symmetry with the spirit.

In Classical Homeopathy we speak o miasmas (from the Greek invisible stinking entity). Samuel Hahnemann, the creator of homeopathy, says he has rediscovered diseases that have existed for millennia. During his first experiments he saw that the patients were healing but not completely from chronic diseases and he hypnotized that there were memories within the individuals that did not allow the vital force to flow fully, and he called these diseases miasmas.

1) psora: it only comes from scabies and Hahnemann believed It was the first human disease on earth

2) sycosis: includes all proliferative diseases (tumors, calluses, warts).

3) lues: it derives from syphilis and includes all the degenerative diseases that cause lysis or ulcer in the tissues.

Sycosis involves the creation of masses in the body (tumors or adenocarcinomas) according to the paleoencephalon pattern while lues involves tissue loss in the mesoderm of cerebral medulla and ulceration in ectoderm the cerebral cortex, both according to the neoencephalon pattern. According to the interpretation of third level homeopathy, (Masi, Ortega, Paschero) psora is the original sin, the guilt that cannot be washed away.

This causes a sense of guilt and existential anguish in man. In reaction to it, one assumes a hyperactive behavior, which in a psychological sense is defined as mania or a passive –destructive behavior which psychology is defined as depression.

We can hypothesize that local symmetry breaks (Gauge transformations) create memories within DNA and constitute the origin of miasmas. We can also assume that the Gauge fields aimed at restoring the global symmetry are responsible in the organism of the post-conflict phases A and B (PCL A and PCL B) with the restoration of life force.

Conclusions

The first main goal of this paper is to describe for the first time, to the best of the authors' knowledge, the scientific avenue of Quantum Epigenetics, which aims at integrating: Epigenetics, Quantum Physics and Psychology.

The main working assumptions at the basis of Quantum Epigenetics are:

1) the presence of ancestral quantum information stored in the genetic heritage of cells (e.g., DNA, RNA, Chromatin, mitochondrial DNA… etc);

2) the possibility of perceiving said ancestral quantum information by an individual in particular states of consciousness (e.g., extended state of consciousness);

3) the possibility of consciousness to store, elaborate and transmit said quantum information capable of modulating gene expressions, without involving any alterations in the DNA sequence. Importantly, if Chromatin, and the other genetic material such as DNA and RNA, is capable of storing quantum information related to the living individual (as argued by this paper), then this material might also support the quantum phenomena, such as, tunneling, states superposition and entanglement, occurring in living matter at ambient temperature [13].

The second main goal paper is to integrate Quantum Epigenetics with the Biological Laws of the Germanic New Medicine, starting from the analysis of chromatin as a cellular brain and then analyzing the organ brain and the encephalon in its correlation with the embryonic layers and with phylogeny.

The main thesis provided by this work is that we can consider the conflict shock mentioned in the first biological law as a symmetry breaking operated by NG bosons. These NG bosons induce changes in gene expressions without changes in DNA (genotype) but with changes in phenotype by modifying the information in chromatin. An action of the Gauge bosons is hypothesized as a symmetryrestoring action of the symmetry breaking. This paper allows not only to integrate but also to overcome both Quantum Epigenetics and Germanic New Medicine by uniting and harmonizing all the planes of the human being, physical, psychic, mental, anemic and spiritual, where the action of restoring symmetry of Gauge bosons creates an expanded state of sublime spiritual consciousness. This expanded state of sublime spiritual consciousness must be considered as a state superior to biological and

psychic laws. Alchemical laws harmonize the exchange by restoring global symmetry with the spirit.

References

[1] Manzalini, Antonio. A New Model of Consciousness as a Quantum Field. Journal ISSN 2766 (2022): 2276;
[2] Peskin, Michael E. An introduction to quantum field theory. CRC Press, 2018;
[3] Feynman, Richard. QED: The Strange Theory of Light and Matter. Princeton University Press. ISBN 978-0-691-12575-6, 1985;
[4] Schützenberger, Anne. La sindrome degli antenati, traduzione di Francesca Garofoli, Di Renzo, Roma, 2004. ISBN 888323076-0;
[5] Stevenson, Ian. Where Reincarnation and Biology Intersect. Praeger Publishers, 1997;
[6] Ryke Geerd Hamer Scientific Chart of Germanic New Medicine. Amici di Dirk;
[7] Ryke Geerd Hamer. Vermachtnis einer Neuen Medizin. Amici di Dirk;
[8] Friston, Karl, et al. Knowing one's place: a free-energy approach to pattern regulation. Journal of the Royal Society Interface 12.105 (2015): 20141383;
[9] Plotkin, Henry C. The Nature of Knowlege: Concerning Adaptations, Instinct and the Evolution of Intelligence. Lane, Allen, 1994;
[10] Friston, Karl. Hierarchical models in the brain. PLoS computational biology 4.11 (2008): e1000211;
[11] Friston, Karl. The free-energy principle: a unified brain theory? Nature reviews neuroscience 11.2, 2010;
[12] Vitiello, Giuseppe My double unveiled. John Benjamins, 2001;
[13] Harney, Michael. The effects of quantum entanglement on chromatin and gene expression.
GeNeDis 2018: Genetics and Neurodegeneration, 2020, 73-76.