



# Biomagnetism advanced course

## Unit II

# Science and Bioenergetics

Presented by:

[biomagneticguide.com](http://biomagneticguide.com)

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## A journey through science

### Unit 2 lesson 1

#### Introduction

Physics is the science that studies the properties of matter and energy and establishes the laws that explain natural phenomena. Coming to understand how the world and nature works has been a desire that has accompanied man since time immemorial. Science is born when a rational explanation for phenomena is sought and not just a religious justification (it is the gods or spirits that govern nature). Thus, throughout history there have been great thinkers and philosophers who have created different theories to explain the world in which we live, for example, in Greece Leucippus or Democritus proposed their theories.

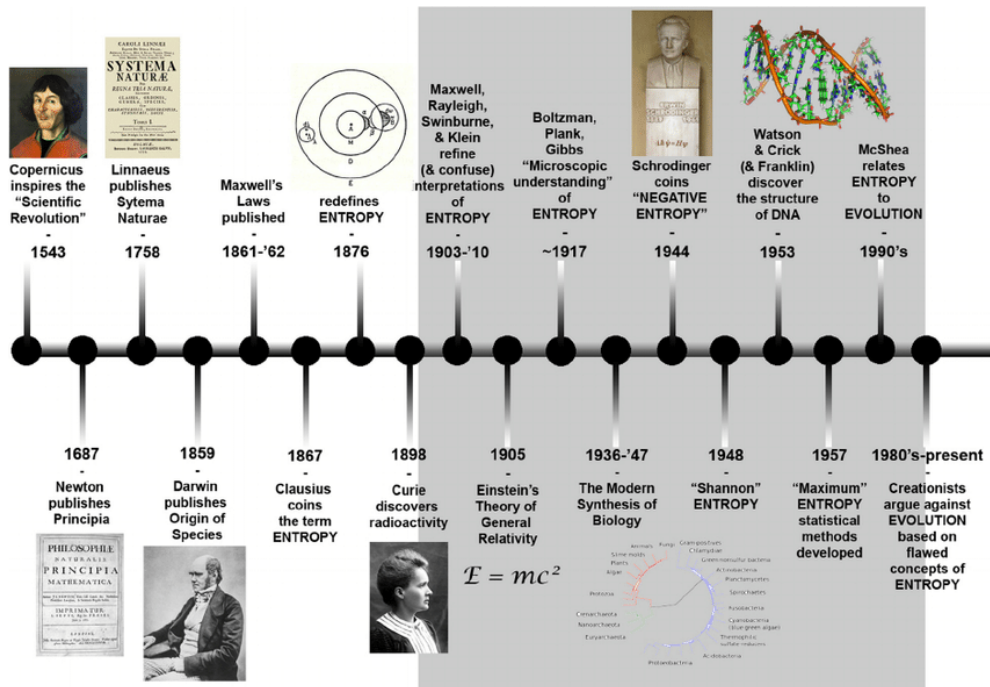
#### Classical physics

Classical physics owes its development to two great scientists: The first Galileo Galilei who conducted experiments from a tower to conclude that two objects fall at the same speed, regardless of their weight. In this way he modeled a way of doing science based on the scientific method. Years later, Sir Isaac Newton was able to mathematically define the behavior of objects and thus create the laws of physics that we use today, with which it is possible to calculate a structure, or predict the parabolic trajectory of an object or even the movement of the planets around the Sun. Analytic geometry allows us to describe the trajectories of objects and the magnitude of forces by means of vectors represented, either in a two-dimensional plane, or in three-dimensional space. To calculate the paths of the planets in the solar system, Isaac Newton needed to create a new branch of mathematics called differential calculus.

His new theories were reflected in his book *Philosophiæ naturalis principia mathematica*, which literally means: Philosophy of nature based on mathematical principles. It is noteworthy that the great genius also wrote important treatises on optics and the nature of light. And we must not forget that Newton was fascinated throughout his life by esoteric sciences such as the Kabbalah, astrology; and in general the ancient texts, the meticulous study of which he devoted much of his time to.

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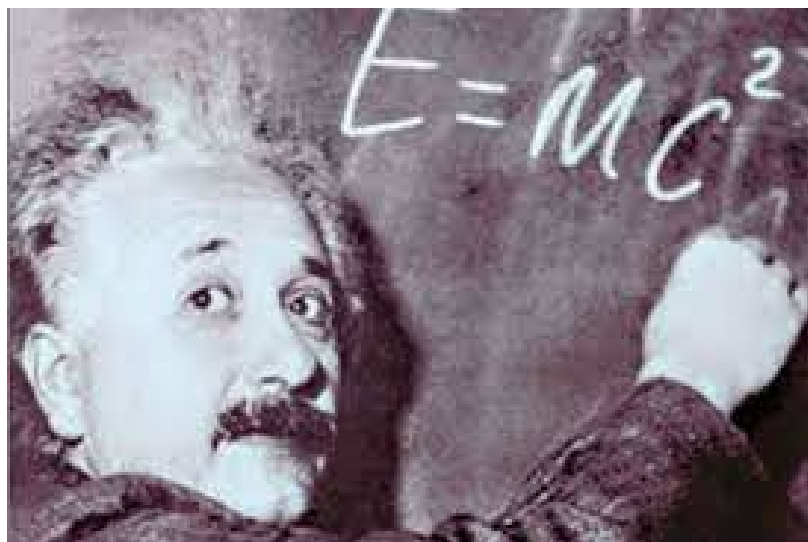
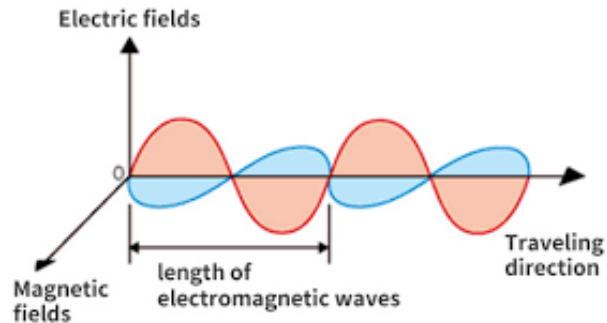
For several centuries the works of Isaac Newton marked the way in which the reality in which we live was understood. To simplify, we will say that the world was understood to be basically made up of particles or corpuscles, which could be understood by applying the laws described by Newton. Also the behavior of liquids and gases could be understood as small particles subject to well-known laws. As chemistry advanced, elements could also be understood as small particles interacting to create various compounds. This is what we can call the corpuscular theory. This vision allows us to explain each phenomenon of the universe, from atoms, living organisms, to planets and galaxies.

According to this theory, the solar system can be understood as a clockwork mechanism, just like the human body or any other living being. The universe itself can be understood as a gigantic mechanism that can be understood, and its future state can be predicted by applying the already known laws of mechanics. So this approach based on physics and the mechanical effects of particles is also called the mechanistic model of the universe. It is also important to underline that according to this approach, having the necessary data it is possible to determine the future result in any system. This is possible, since, ultimately, from atoms, liquids or planets, they are all particles whose trajectories and interactions can be determined. The whole universe is like a pool table in which the balls will follow perfectly definable trajectories that we can calculate and determine, based on the initial stimulus. It is what we call a deterministic view of the

universe, everything obeys perfectly defined laws, so the future state of a system, or of the universe itself, could be determined in advance.

### Electromagnetic fields

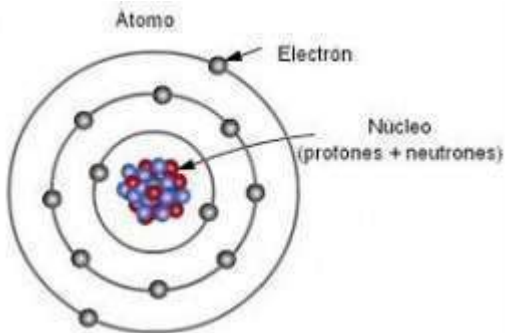
The phenomenon of electricity and magnetism brought a new concept that no longer fit the corpuscular materialist model. Electricity and magnetism can only be described by a force field that can no longer be represented by corpuscles. The field simply exists in space, without there needing to be any object of which it is composed. In any case we can speak of force or energy, but no longer of matter. By bringing a magnet closer to another, we can feel its repulsive or attractive energy, depending on the polarity, and we understand that there is a force between both objects, but we do not see an exchange of matter. It was in the 19th century that the great Scottish physicist and mathematician James Clerk Maxwell formulated the equations to describe magnetic waves. In this way he was able to conclude that both electricity, magnetism and light obey the same phenomenon called electromagnetic waves. This is how matter began to lose prominence and energy began to gain more importance. Scientists began to discover that the world is not only made up of particles, but that energy plays a very important role. Finally, Albert Einstein discovered that matter is nothing more than condensed energy and that it can even be released obtaining large amounts of energy, according to his famous formula:  $E = mc^2$



## What is the universe made of?

As a child I once took a napkin and started to fold it in half and split it, then I took one half and in turn folded it and split it in half. I did this several times until I reached a size where it was impossible for me to manipulate the small pieces of paper, but my mind suspected that I could keep getting napkin halves over and over and over again... But how far can you divide? The matter? This questioning had already been done by several ancient philosophers such as Kanada in ancient India or Democritus in Greece. This is how the idea arose that all matter was made up of tiny indivisible units: atoms.

Chemistry, when studying the different elements, realized that each one is made up of small particles exactly the same as those called atoms, since they fit the concept of the ancient philosophers. Thus we know that the hydrogen atom, for example, is made up of a proton and a neutron in the nucleus, and has an electron in its first orbit. The helium atom already has two protons and two electrons. Lithium has 3 protons, neutrons and electrons.



Anyway, we can continue like this until we reach Nobelium with 102 electrons, the latter is a synthetic element, that is, created artificially in 1966, therefore it is an unstable element.

And since we are talking about unstable elements, this means that the atom, apparently indestructible, can finally be divided into smaller components. Nobelium, as well as other synthetic elements, can only remain stable for short periods of time, which can be from a few thousand years (a short time in relation to the age of the universe) to fractions of a second. When they decompose, they can be converted into lighter elements and can also generate radiation, as is the case with plutonium, uranium or radium.

We now know that atoms are made up of smaller particles called elementary particles, such as:

- Neutron, is located in the atomic nucleus and has no electrical charge.

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- Proton, is in the nucleus of the atom, positive charge and considerable mass

- Electron, revolves in orbit around the atomic nucleus, has a negative charge and a tiny mass, almost negligible.

In some way we can imagine the atom as a small planetary system; in fact, at first physicists thought that it was something very similar, but over time they have come to the conclusion that, in reality, they are not very similar, as we will explain in the next lesson.

## Quantum physics

### Unit 2 Lesson 2

## The Quantum, the limit of the small.

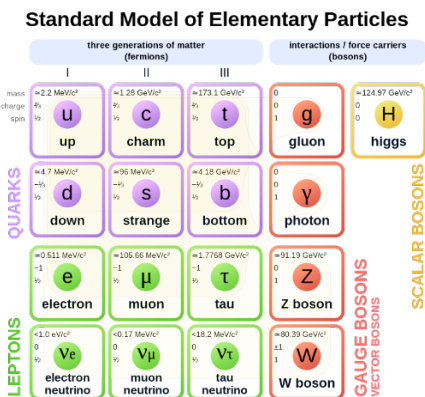
In the last century, thanks to advances in technology and quantum physics, a series of elementary particles have been discovered that physicists continue to study to understand the current universe, as well as its origin and possible end. The question remains: how far can we divide matter?



In fact, the answer came several decades ago, thanks to the physicist Max Planck who discovered that particles cannot be divided infinitesimally, but that nature sets a limit for the smallest. In this case, it is no longer matter particles, but energy, because in the end matter is just concentrated energy. That unit of energy is what Planck called the quantum or quanta and from there the quantum theory was born. The energy can only manifest in small amounts or

packages, below that limit it is very unlikely or almost impossible that it can exist.

For example, the bundle of light energy is called a photon. That is, the photon is the smallest possible unit of electromagnetic energy. Based on this concept, it has been possible to study the entire series of subatomic particles that have been discovered in the last century, such as bosons, leptons, hadrons... or the famous Higgs boson; the so-called elementary particles. Each of these particles has specific properties that are capable of communicating forces such as electromagnetism, or the weak and strong forces within the atom.





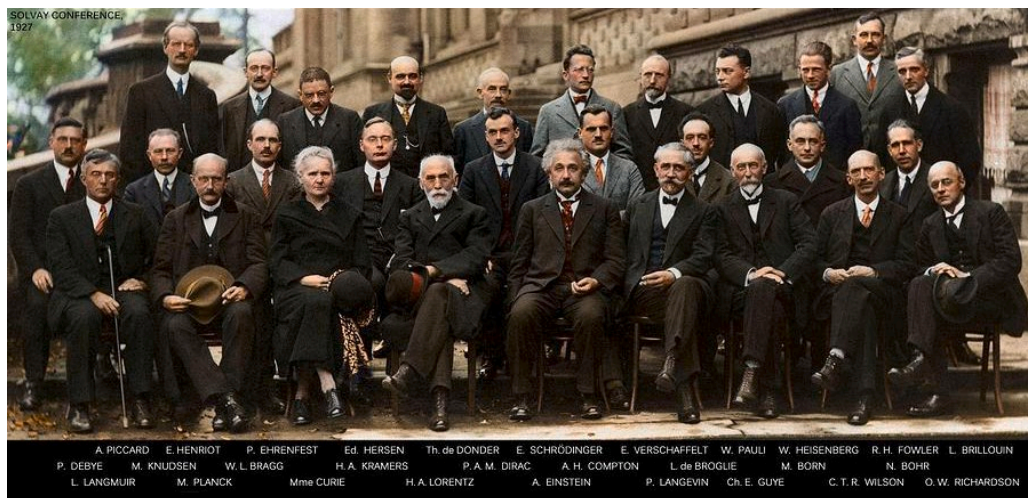
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The gravitational force is a special case since it has not been possible to devise a theory that explains it within the framework of quantum physics, nor has its respective subatomic particle been found, which would be called a graviton. On the other hand, in the framework of relativistic physics, devised by Albert Einstein, gravity is the result of the deformation of space-time.

Returning to our topic of quantum physics: Max Planck was just the forerunner of this new branch of physics, which unlike other branches has required the participation of several scientists who have made important contributions throughout the last century. Erwin Schrödinger, David Bohm, Neils Bohr, Louis De Broglie, Werner Heisenberg, Max Born...

Quantum physics began to take shape at the beginning of the 20th century, from the discovery of the quantum by Max Planck and it was until 1927 when several physicists met to try to give cohesion and an interpretation to everything they had discovered in three decades, to what they called the Copenhagen interpretation and the mathematical model that allows describing, in great detail, the behavior of subatomic particles they called: Quantum mechanics.



Physicists who participated in the elaboration of the Copenhagen interpretation of Quantum Mechanics such as Erwin Schrödinger, David Bohm, Neils Bohr, Louis De Broglie, Werner Heisenberg, Max Born... Also present Albert Einstein (center-bottom).

## The paradoxes of quantum physics.

Quantum physics opens a new paradigm and breaks with the concepts that had prevailed since Newton wrote his book Principia. Apparently, the



subatomic world is governed by laws completely different from the laws of classical physics.

Let's look at some of the peculiarities that physicists discovered.

Uncertainty principle. The laws of quantum mechanics can accurately indicate the probability that a particle exists at any given point. But only in the probabilistic realm, since in reality there is no way to determine the exact position of a particle. That is, particles exist only as a probability that can be represented as a wave. It is until the moment that we measure or observe them, when we can already determine their position. This strange phenomenon is what physicists called the collapse of the wave function. That is, the moment of observation, when the "particle" changes from being an indeterminate wave or a corpuscle with established speed and position.

Since the exact position of a particle cannot be precisely known, this makes it impossible to make exact predictions and to know the future of a system. This led Erwin Schrödinger to imagine an experiment, devised in such a way that the life of a cat would depend on the state that an individual subatomic particle can take. The particle would have a 50% chance of emitting radiation and a 50% chance of not emitting it. If it emits radiation, it would break a jar that would release a poison, killing the cat.



Let's imagine that the whole experiment: cat and other devices with the poison are inside a closed box that nobody can observe. As long as nobody opens the box, the cat will be in an indeterminate state, according

to quantum physics it will be 50% alive and 50% dead. But this does not mean that he would be dying, or from the waist up alive and from the waist down dead. What it implies is that the cat only exists as the sum of the possibilities: 50% alive and 50% dead, something impossible to understand rationally since reality is made up of certainties: either the cat is alive or dead, but it cannot be in both states at the same time. But for quantum physics it is possible. Although it cannot be verified in the case of a cat, it has been verified in the case of subatomic particles, such as electrons, which can be in several states at the same time, which is called quantum superposition.

In Schrödinger's hypothetical cat experiment, it is not until the moment the scientist opens the box that the probabilistic wave collapses and reality is created, making the cat dead or alive. So to understand quantum physics we have to stop thinking about corpuscles of matter, we even have to abandon the idea of packets of energy and start thinking about probabilities. The world of quantum physics is made up of probabilistic waves that can be described by mathematical equations. What our senses see is the end result of those waves of probability. It is only when we observe that the wave "materializes" and the particle appears in a certain place and time - collapse of the wave function -.

### The double-slit experiment

The double-slit experiment is interesting because it creates a series of paradoxes that have stumped scientists. The issue goes back centuries when scientists have tried to determine whether light is made up of particles or waves. First, Isaac Newton declared that light was made up of particles. Then, in Thomas Young's double-slit experiment in 1801, it was concluded that light behaves like waves.

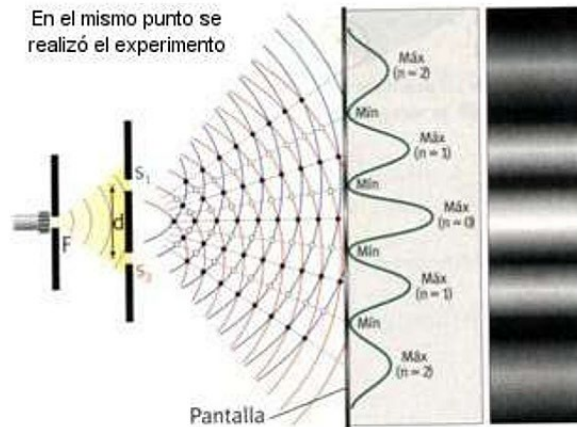


This experiment consists of a dark chamber where a plate with two small slits separated by a minimum distance is placed. When the light passes, an interference pattern is created, that is, the light behaves as a wave and not as a particle. On the other side of the slits, a screen can be placed where you can see that the interference pattern creates light fringes, where the crests of the light waves add up, and dark fringes, where the light waves cancel each other out. . The interference pattern is the same phenomenon that we see, for example when we throw two stones simultaneously into a pond and see how the waves overlap.

If light behaved as a particle, instead of seeing an interference pattern, we would see on the screen only two fringes corresponding to the straight path between the light source passing through the slits. This experiment shows that light behaves like a wave, while others, such as the photoelectric effect devised by Albert Einstein, show that it behaves like a particle. So the dilemma about the nature of light: wave or particle? continued into the 20th century.

But new versions of the double-slit experiment, carried out in the 20th century, yielded even more surprising results. Light can behave in any way, like a wave, or like a particle, but it all depends on "the question" that the experimenter asks.

With the new technology in the 20th century, scientists did the experiment, but this time by launching the photons (particles of light) one by one. Thus various dots appeared on the photographic plate, and after some time the interference pattern became apparent once more. This means that the photons, even launched one at a time, follow a probability pattern, and that probability pattern behaves exactly like a wave, producing interference patterns that in turn create the light fringes on the photographic plate. If we see an individual photon, it will just be a point on the plate, but if we see the whole set, then the pattern makes sense. And that pattern of probability, by creating the fringes again, indicates that light behaves like a wave, regardless of whether the electron travels individually, somehow it "knows" that it is just one element of "a whole" and that a "choreography" must follow within the "dance of the particles"; even when the other dancers are not present on stage, the dancer knows how he has to perform his dance.



But the physicists did not stop there and wanted to know exactly which path each photon followed, so they placed a minimally invasive detector in one of the slits to find out if it crossed slit A or B. And indeed they could detect which slit each photon crossed, But to the surprise of the experimenters, the interference pattern disappeared, and instead they only got two fringes of light. That is to say that when we observe the trajectory followed by the photon, then it stops behaving as a wave and behaves as a particle. This leads us to the conclusion that, unlike the other sciences, in quantum physics the observer is an integral part of the experiment itself. The observer cannot be separated from the object of observation. The philosophical (ontological) implication of this phenomenon is even more difficult to accept, especially for physicists: consciousness and matter are intimately linked.

Quantum physics has not only changed the way we see matter and energy, but has also questioned what we consider reality. Theoretical physicists do not really stop at philosophical questions, for them the important thing is that the equations of quantum mechanics are capable of predicting atomic behavior with several decimal places of precision. However, there have always been various critics, including Albert Einstein, who said about the uncertainty principle.

"I can't believe that God plays dice with the universe."

Or regarding the relationship between consciousness and reality:

"I want to think that the Moon exists, even when I am not observing it".

### Quantum entanglement

Another phenomenon that emerges from quantum physics is non-local effects, or what we could also call quantum entanglement, which is of special interest for understanding telebioenergetics.

Quantum physics predicted that entangled particles could be created at the quantum level. This means that both particles are part of the same system and therefore there will always be a close relationship between them. For example, both must maintain a balance of momentum, momentum defined as the sum of their masses and velocities. So if one particle starts to spin to the right, the other must spin to the left. Quantum physics predicts that both particles will retain their initial momentum, regardless of the distance between them. That is to say that one can be here on Earth and the other particle in a distant star, or in another galaxy and even so, both will maintain an instantaneous communication called quantum entanglement.

Einstein proposed in his theory of relativity that nothing can travel faster than light (299,792 km / sec), so, according to his theory, instant communication at a distance is impossible. So he called the supposed quantum entanglement "Spooky effect", in advance, thinking that it was impossible. And to prove it he proposed, together with two other physicists Rossen and Podolsky, an experiment that would expose the absurdity of quantum entanglement.

The ERP experiment. (taking the initials of its authors: Einstien, Podolsky and Rossen) first requires creating two entangled particles. Then they are sent in opposite directions and as a third step the "spin" (turn) of some of them is measured. Let us remember that the spin is indeterminate until the moment of measurement. Therefore, when measuring the spin of particle A, automatically that of particle B must rotate in an axis and direction opposite to that of particle A.

The experiment was devised theoretically by Einstein and the other two colleagues in 1935, being merely a hypothetical experiment, since at that time the technology did not exist to carry it out physically. Later, in the year of 1965, mathematician John Bell developed Bell's theorem, which in mathematical form can analyze the results of the experiment and determine whether quantum entanglement can exist or not.





In 1976, the experiment could finally be carried out for the first time in physical (real) form. To date, several EPR experiments with different variants have been carried out, now called quantum teleportation experiments, which in reality are not about teleportation of particles, but about sending information instantly (a not insignificant result).

Conclusion: Einstein was wrong, information can somehow travel instantly, violating what Einstein proposed in his theory of relativity. So we have to assume that there is another level of existence, in which the laws of space-time do not apply, that is to say that we are talking about a metaphysical level - beyond the physical - or to put it in the current language: a quantum level. Fortunately, Einstein did not live to see how wrong he was, he passed away in 1955. Quantum mechanics has provided a new vision of the universe, in which matter is no longer the protagonist, nor is energy, but rather the mind, which makes up the universe, as two great physicists of the 20th century have described:

According to physicist James Jeans:

“the flow of knowledge is directed towards a non-mechanical reality; the universe begins to look more like a great thought than a great machine.” The mind is no longer akin to an accidental intruder into the realm of matter...rather we should welcome it as the creator and ruler of the realm of matter.” But physicists have yet to follow Galileo's example and convince everyone of the wonders of quantum mechanics. As Arthur Eddington explained: “It is difficult for the realistic physicist to accept the view that the substratum of everything is mental in nature” 1.

In the next chapter we will analyze the relationship between the new paradigm of quantum physics, biomagnetism and bioenergetics.



## Bioenergetics, a new medical paradigm

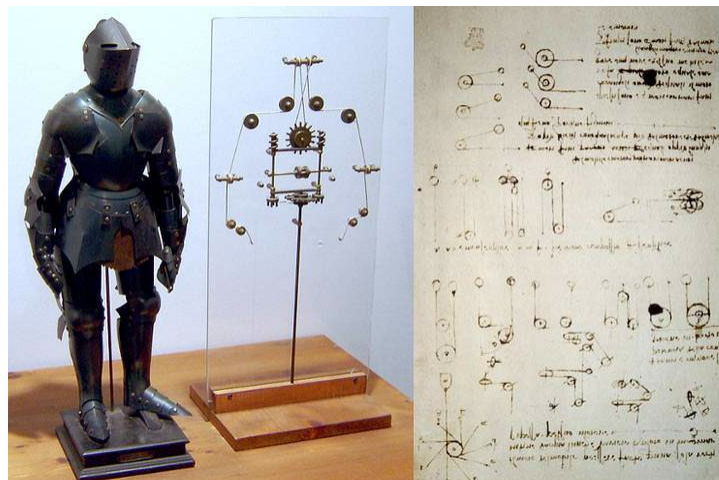
### Unit 2 Lesson 3

You may be wondering why we have devoted so many pages to the history of physics and quantum mechanics, which have little to do with the field of health. This is because it is vitally important to understand the different scientific paradigms to understand what ground we are treading when we practice biomagnetism and bioenergetics. It is evident that mechanistic physics, prevailing for hundreds of years, is not enough for us to understand biomagnetism, much less telebioenergetics (distance treatment).

### The planes in which biomagnetism operates

When we talk about procedures such as surgeries, massages, drainage, we are merely acting on the physical plane and the mechanisms can be easily understood with the laws of physics. In many respects, the physical body can be understood as a machine: The cardiovascular system is a network of "pipes" with a pump (the heart) that drives blood. The digestive system is essentially a tube that runs through the body. Muscles and tendons are similar to pistons and tension cables that connect bones. While the brain can be understood as a computer that instead of silicon uses transistors based on proteins and other chemical compounds, instead of plastic as insulation the brain uses fat.

Leonardo Da Vinci, after studying human anatomy, came to the conclusion that, in a certain way, the human body was like a machine that could be emulated by man. Based on this concept he dedicated many hours to create the first automaton that we know of; It was a human-shaped machine capable of moving the upper extremities through a series of cables and pulleys.



With the invention of the microscope and later the development of chemistry, science has been able to understand living organisms more deeply. In recent years, doctors have studied in great detail the hundreds or thousands of chemical reactions that make cell function possible. The cell seen as a small organism, in itself or also as a small factory that fulfills its own functions, as well as those that serve the entire organism: social functions. It is from biochemistry that the hundreds of drugs and remedies offered by allopathic medicine have been developed, a great triumph of technology. But even there we are on the plane of mechanistic physics.

To understand chemistry, and therefore biological processes, it is necessary to understand the types of bonds of elements and molecules and the role played by electric charges. In other words, here we are already talking about ions, homeostasis, potential hydrogen ions (pH). So already at this level we also enter the energy field. It is at this point that Dr. Isaac Goiz Durán based his method: The biomagnetic pair achieves the pH balance between two points of the organism, or poles that make magnetic resonance. In other words, here we are already talking about the energy level, biomagnetism deals with electromagnetic fields.

Modern science has delved into the study of electromagnetism and much of our technology is based on it: radios, computers, airplanes, cars, etc. However, the study of electromagnetism and other types of energy in living beings has made little progress in Western science. Ancient cultures, such as China or India, give us a better understanding of the functioning of the human organism on the energetic level; for them, the physical body was just a manifestation of many other planes.

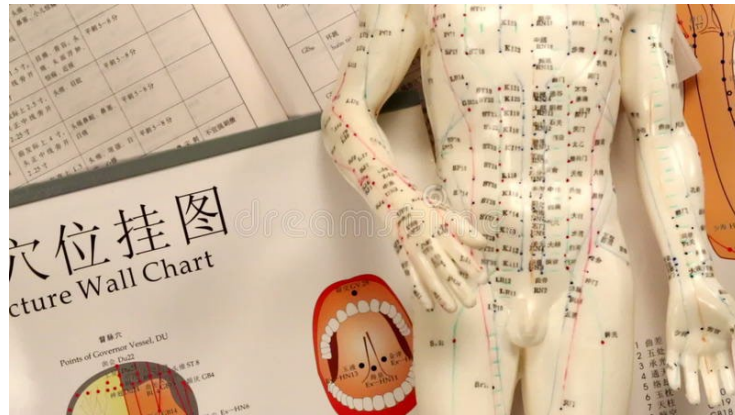
### **Energetic anatomy in ancient cultures.**

Traditional Chinese Medicine studied the human body for centuries in its energetic aspect. Chinese philosophy is based on the principle of polarity: Yinn, feminine and Yang masculine. Everything in nature can be understood from the polarity and cycles of nature that always lead to balance. In the human body, energy runs along several channels called meridians, which in turn are related to the main organs of the human body. When the organs alter their balance, whether they have a lack or excess of any of the yinn or yang energies, it is when the disease occurs, acupuncture consists of balancing the energy by stimulating specific points, which can be done with various means such as needles, fingers or hot sticks called moxas. Since the subject of Traditional Chinese Medicine

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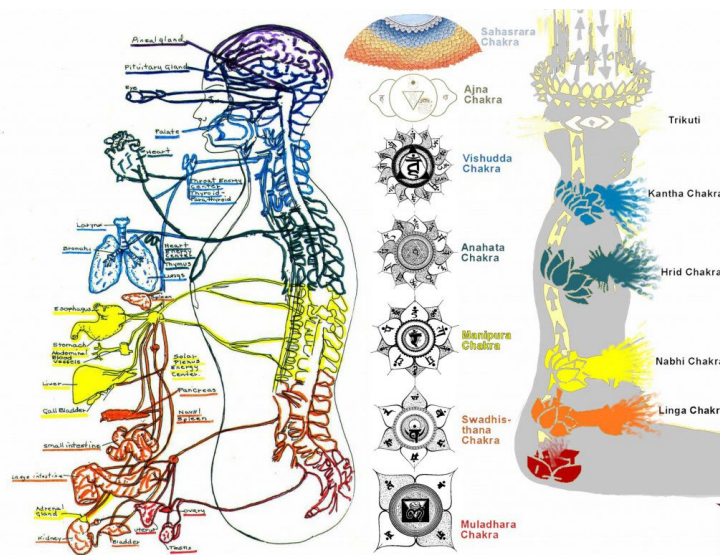
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is extremely extensive and equally important, we will address it in more detail in later lessons.



The same can be said of the ancient Hindu philosophy, where the physical body is called Annamaya kosha which means "envelope made of food". But it is not the only body, we also have the Pranamaya kosha energy body, the Manomaya kosha mental body, the Vijnanamaya kosha body of knowledge and awareness, and the Anandamaya kosha body of bliss.

The chakras, or bioenergetic centers, are already widely known in our western culture. What is interesting is that these energy vortexes, in addition to being related to the organs, are also related to the various energy bodies and to states of the psyche. In ancient cultures, the vision of the human being was a holistic vision, there is a close relationship between the physical, emotional and mental bodies, and even with the rest of the cosmos. All the parts, no matter how small, are connected, forming a unit, forming a WHOLE.



When studying ancient cultures, there is no choice but to accept what little we know about the body in its energetic aspect. We must continue studying to fully understand how a pair of magnets affect subtle bodies, how they balance emotions and the effects they achieve, not only on the physical plane, but on many other planes.

### Looking for a new model.

At the end of the 20th century, Dr. Goiz began to find energy-type pairs, and these were simply added to the list of already known pairs related to organ pH imbalance and the presence of pathogens. Later, psycho-emotional type pairs appeared, which can hardly be explained based on the alkalization or acidification of certain organs, so the model based on changes in pH and electromagnetic fields begins to be narrow to explain these phenomena.

Biomagnetism affects the physical, but it does so from the energetic plane, since it does not use drugs or physical interventions such as surgeries, but rather magnets; so it is classified within vibrational therapies, along with reiki, homeopathy and many others. Bioenergetics, which is the subject that concerns us, cannot be understood if we stay in the material or energetic plane. Here we enter a completely new terrain in Western medicine, for which we need to take a "quantum leap" so to speak, and adopt a new paradigm..

### Electromagnetic waves, possible explanation?

Dr. Moises Goiz Martínez in an article called Wireless Technology offers a possible explanation for the phenomenon of telebioenergetics:

“The following theory offers a similar explanation to the Bioenergetic phenomenon since there must be a gland in the brain capable of transmitting by radio frequency and in binary code the information from the tracking of the biomagnetic pairs carried out by the biomagnetic doctor and another gland in the patient transmits by microwave, an electromagnetic charge to each point of the body until it resonates and confirms a biomagnetic pair. Microwaves are so compact that they can even conduct high voltage electricity and of course electromagnetic fields of more than 1000 Gauss. Plant experiments demonstrate radio frequency communication.

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On the other hand, for distance healing, I presume, a system of digitally signed packages is used that are transmitted to each human being by proximity, just as a base radio does, until the recipient is found and thus a two-way communication is achieved; and by explaining the magnets in the patient's relative or friend who is in our proximity (the antenna?\*) the magnetic fields in the form of electricity travel by microwave to the patient wherever he wants him to be." (1)

Dr. Moisés Goiz's explanation assumes that the human body works in the same way as today's telecommunications networks. The brains would be like computers or cell phones with some device (gland) capable of emitting microwaves or electromagnetic signals capable of transmitting data and energy at a distance. In other words, it would work in a similar way to cell phone networks. However, this explanation generates several problems, which those who understand transmission by means of electromagnetic waves will immediately notice:



Cellphone network

How much electrical power (voltage) would this gland need to be able to transmit radio frequency over a distance? We know that telecommunications antennas need great power to be able to cover a considerable radius of distance. The greater the distance to where we want to go, the more power will be needed since the signal intensity decreases inversely proportional to the square of the distance. That is why satellite dishes are used to be able to direct the waves in only one direction. Returning to the model proposed by Dr. Moisés, what wattage would the body need to be able to emit the messages? Is it possible to do an experiment to measure if the body emits these types of frequencies? As far as we know, the heart is the organ that emits the most powerful electromagnetic waves, due to the potential differential produced by the sinoatrial node, which is responsible for controlling the heartbeat. The



brain, although it has great electrical activity, generates a less intense electromagnetic field.

We assume that to transmit the message from sender A to receiver B, several intermediaries are required, in the same way that cellular antenna networks do it, for the same reason in some areas, where there are no telecommunications antennas, our cell phone runs out sign. What would be the maximum distance between each of the people to be able to transmit the information?

What would happen in the event that there were not enough people placed along the entire communication path? Surely communication and treatment at a distance would not be possible. As would be the case, for example, if the person were in an isolated place such as in the middle of the ocean, in a desert or in one of the polar ice caps. In that case it would be impossible to transmit the message, as happens with cell phone networks, which require a nearby antenna to receive the signal. As far as we know, the first patient that Dr. Goiz treated was in Italy, while the Dr. was in Mexico. It would be very unlikely that a network of people existed at the time, who were arranged in such a way that communication between the two countries would take place, crossing the Atlantic Ocean.

On the other hand, it would also be necessary to question what type of antenna the receiver (patient) should have in order to capture the frequency of the transmitter. Is it possible that one day medicine will discover that gland that has the functions of antenna and radio device? As I already pointed out, this explanation of telebioenergetics, based on electromagnetic waves and emission from some gland in the body, seems quite unlikely.

### Liquid crystal water

Dr. Esther del Río Serrano Chemistry-Biologist from the National Polytechnic Institute, with a master's degree from the University of Michigan and a doctorate in science with a specialty in Biochemistry from the University of Córdoba, Argentina, contributes valuable discoveries for which she has been named woman Award of the Year, by the University of Cambridge, where she was awarded the medal and diploma that accredit her.

Dr. Esther del Río and a team of collaborators found that the water that contains our organism and keeps our body preserved has a molecular



structure similar to that of the waters of Hunza, Vilcamba and Abkhazia where the average lifespan is more than 110 years, registering ages of up to 130 and 140 years. The team chaired by Dr. Esther del Río has managed to develop the technology to produce liquid crystal water.



Liquid cristal water

Thanks to the discoveries of Dr. Esther del Río, today we know that the water in our body is actually an intermediate state of matter that has properties of optical crystals, that is, it can act as a solid and a liquid at the same time. , this explains why even though we are more water in body composition, we have mass, tone and firmness.

It was found that liquid crystal water, in addition to fulfilling the function of "filling", is a ball structure that functions as a memory unit, which carries and brings information exponentially to all the cells that make up our body.

Thus, cellular biochemistry works thanks to the information carried by liquid crystal water.

Based on the discoveries of Dr. Esther del Río on Crystal Water, Dr. Isaac Goiz Durán came to form the following communication model:

"Thanks in large part to the work of Dr. Esther Del Río, who discovered that there are paramagnetic substances of ferrous oxide and ferric oxide in the periphery of body cells, allowing us to understand that wireless and bioenergetic transmissions are

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faithfully captured by DNA nuclear, which analyzes the order and when it has the answer, performs the act of body shortening, because the bioenergetic induction is instantaneous inside the cell and in its periphery due to the presence of liquid crystals of water H<sub>2</sub>O-37.

Another of the checks of the cellular biological receptors, that is to say of the DNA, is the ease with which the pathogenic viruses that are codified portions of nucleus proteins, yield and disappear from the sick human organism, when they are discovered by Bioenergetics and they are ordered to its inhibition or disappearance; as pathogenic viruses capture and understand our orders, for this reason, currently and thanks to medical Biomagnetism and Bioenergetics, it is easier to treat viral pathologies than bacterial, fungal or parasitic pathologies.”(2)

As explained by Dr. Goiz, water crystals are a key piece in the communication of thought and energy in the process of remote treatment; in this way the limits of space-time can be exceeded, as he points out:

“This concept allows us to understand that subparticles defy the orthodox concept that matter attracts in direct proportion to its mass and inversely to the square of its distances because in bioenergetics, it has been proven that detection and induction at a distance is so fast. and effective as when performed directly on the patient; that is to say, that this phenomenon breaks with time and distances and unifies the local with the distant; that is, it unifies the whole as current theoretical physicists claim.

The tests and practices, now common, that have been carried out on patients, have allowed induction to assist hospitalized patients and even patients in other very distant places such as Europe, North America, South America and Asia.

This procedure has also made it possible to trace kidnapped persons in order to know their existence alive, their state of health and their possible location”.(3)

Later on, Dr. Goiz goes on to mention the areas of the brain involved in the transmission of the therapist's orders. The interesting thing would be to know how he came to those conclusions, through

electroencephalograms? I doubt it, rather I think he was asking the superconscious directly.

“Which areas of the (cerebral) cortex produce the signals that directly or remotely induce the responses in the human bodies under study? There are two specific ones: the pre-Rolambic area for self-analysis or for patients who are present, and the post-Rolambic area for remote patients. This consideration is important because therapists who already practice Bioenergetics, in addition to the corresponding fatigue when the two areas are used simultaneously, can alter the study and the results because they may be simultaneously exciting their organism, the patient they have present and another person. that remotely and unconsciously requires our attention; hence, numerous biomagnetic pairs are detected when in practice there should be no more than five or six pairs found in serious or chronic pathologies.

It is also true that the patient's colleagues or doctors and even family members can influence the therapist's mental activity and/or the patient's response; therefore, it is necessary for the patient/therapist pair to be preferably isolated.”[\(3\)](#)

1 - Dissertations from the University of Chapingo 2005, Dr. Isaac Goiz Durán and various authors, p.21

2 - IDEM

3 – Fisiopatología bioenergética (Bioenergetic Pathophysiology), Dr. Isaac Goiz Durán, Medicinas alternativas y rehabilitación, México, Sept. 2014.

# Quantum consciousness

## Unit2 Lesson 4

With the elements analyzed so far, we already have a fairly convincing notion of the communication process that bioenergetics allows:

As issuer we have the therapist who issues the order from the cerebral cortex in the post Rolambic area, according to Dr. Goiz. The body of the receiver-patient receives the information and it is transmitted, along with the energy thanks to the liquid crystal water. Finally, the DNA is the one who receives, processes and complies with the order received.

However, precisely how information is transmitted wirelessly from sender A to receiver B remains an enigma. Problem that we can solve using the concepts of quantum physics.

## Quantum physics to the rescue.

This scientific model born in the 20th century, which we already presented in the last chapter, allows us to transcend the limitations of space-time typical of classical physics. Under certain circumstances, a type of communication similar to quantum entanglement can occur and communication can be achieved, regardless of the physical distance between the sender and the receiver.

We assume that it is not the physical brain of the therapist that communicates on the metaphysical or quantum plane; Rather, it is the higher Mind that is capable of achieving communication, since it works on the higher or metaphysical plane, whose rules are similar to those of quantum physics, that is, there is no space-time limitation. By comparison the lower mind is confined to the brain and nervous system of the human body and its only tools of knowledge are the physical senses.



Quantum computer

While the lower mind works like a traditional computer, the higher mind works like a quantum computer or even better. But what the lower mind (the brain) can do is contact the higher mind, ask the questions, and receive the answers through various means.

Western science has only studied the brain's own mental faculties: memory, intellect, imagination, emotions that are part of consciousness. According to psychiatry, these faculties are the product of brain activity, so when the cerebral cortex stops working, they stop. But for Eastern philosophies, there are different levels of consciousness and manifestation. The Hindu texts, for their part, speak of Vijnanamaya kosha which can be literally translated as the envelope (body) of wisdom and knowledge; it is a mind that transcends the limits of the mind of the brain, more linked to emotions. This concept is the one that best adjusts to what in bioenergetics we have called "Superior Mind" or "Supraconscious".

So the therapist must learn to use his brain only as a channel or an antenna to connect with the higher mind; rather than impose a response, he must open his mind, make it blank to allow the higher mind to manifest. We consider it essential to study the nature and characteristics of the superior Mind, as well as the true "Mental" nature of the universe, since they seem to be closely linked concepts. Quantum physics already gives us indications that the universe is not as we suppose based on our senses and our reason. As Fritjof Capra suggests in his book *The Tao of Physics*: studying ancient philosophies with a new look can give us a clearer and broader vision of the mental and holistic essence of the universe.

### Fractals in our bodies

As I write this lesson, an interesting article published on the “Trends” page about the study of quantum fractals has come to my hands, which could describe how the brain produces consciousness at a quantum level:

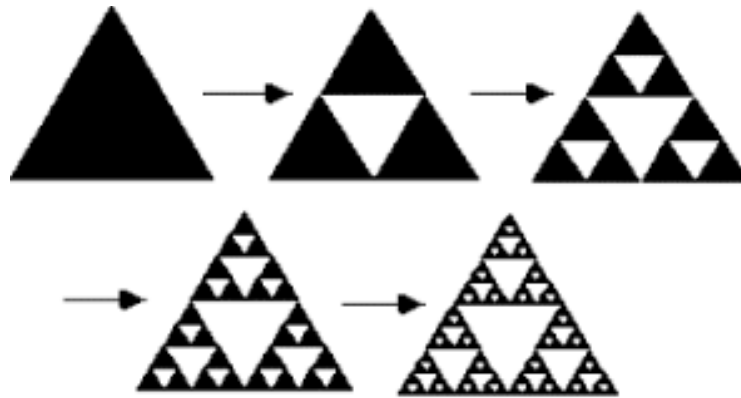
“One of the most important open questions in science is how our consciousness is established. In the 1990s, long before he won the 2020 Nobel Prize in Physics for his prediction of black holes, physicist Roger Penrose teamed up with anesthesiologist Stuart Hameroff to come up with an ambitious answer.

They claimed that the brain's neural system forms an intricate network (of small structures called "neurobullets" and that mental faculties such as consciousness following the rules of quantum mechanics could be produced within them). Penrose and Hameroff were met with disbelief. The laws of quantum mechanics generally only apply at very low temperatures. Quantum computers, for example, currently operate at around  $-272^{\circ}\text{C}$ . At higher temperatures, classical mechanics takes over. Since our bodies function at room temperature, we would expect them to abide by the laws of classical physics. Simply put, the human brain is too hot and humid a place for particles to behave quantumly. For this reason, the theory of quantum consciousness has been dismissed by many scientists.

We still cannot measure the behavior of quantum fractals in the brain, if they exist at all. But advanced technology means we can now measure quantum fractals in the lab.

In recent research involving a scanning tunneling microscope (STM), my colleagues in Utrecht and I carefully arranged electrons in a fractal pattern, creating a quantum fractal. When we then measured the wave function of the electrons, which describes their quantum state, we found that they, too, lived in the fractal dimension dictated by the physical pattern we had created. In this case, the pattern we used on the quantum scale was the Sierpiński triangle, which is a shape that falls somewhere between one-dimensional and two-dimensional. This was an exciting finding, but STM techniques cannot probe how quantum particles move, which would tell us more about how quantum processes may occur in the brain.





Sierpiński's triangle

So in our latest research, my colleagues at Shanghai Jiaotong University and I went one step further. Using state-of-the-art photonics experiments, we were able to reveal the quantum motion taking place within fractals in unprecedented detail. We achieved this by injecting photons (particles of light) into an artificial chip that was painstakingly designed in a tiny Sierpiński triangle. We injected photons into the tip of the triangle and watched as they spread out through its fractal structure in a process called quantum transport.

We then repeated this experiment on two different fractal structures, both shaped like squares instead of triangles. And in each of these structures we perform hundreds of experiments. We also perform experiments on a square-shaped fractal called a Sierpiński carpet.

Our observations of these experiments reveal that quantum fractals actually behave differently from classical ones. Specifically, we find that the propagation of light through a fractal is governed by different laws in the quantum case, compared to the classical case. This new understanding of quantum fractals could provide the foundation for scientists to experimentally test the theory of quantum consciousness.

If quantum measurements are one day taken of the human brain, they could be compared with our results to definitively decide whether consciousness is classical or quantum. Our work could also have profound implications in all scientific fields.

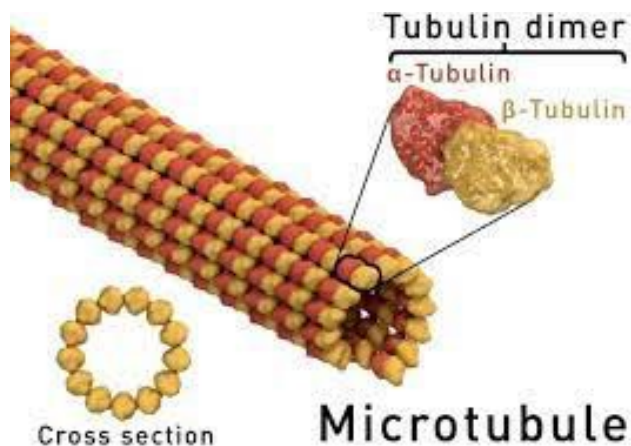
By investigating quantum transport in our artificially designed fractal structures, we may have taken the first small steps toward unifying physics, mathematics, and biology, which could greatly enrich our

understanding of the world around us, as well as the world itself. world that exists in our heads. "(1)

These discoveries never cease to amaze me and bring to my mind the discoveries of Dr. Esther del R o about liquid crystal water. The structures that form crystal water may also be quantum fractals that, in some way, also support the phenomenon of consciousness.

A topic that intrigues only a few scientists since psychiatry is capable of explaining most mental processes, including consciousness itself. According to medical science, mental processes are the product of the central nervous system, where all neurons work together to produce mental faculties, similar to how transistors and microchips process information in a computer. In fact, some claim that through artificial intelligence a computer or a robot is capable of having a certain sense of itself; and this would be the beginning of self-awareness. If this is so, then why bother looking for an explanation at the quantum level?

The problem is that science can explain almost all the phenomena of consciousness, except for a few such as extrasensory perception, telepathy, near-death experiences, and of course: telebioenergetic or distance healing. Since science has no explanation for these phenomena, it simply systematically denies them.



Microtubules, according to Penrose and Hameroff, the structure where one could generate consciousness on a quantum level.

With all this information I do not intend to presume that quantum physics is the unquestionable explanation of consciousness or that telebioenergetics is possible thanks to quantum entanglement. This would be to rush to conclusions without having sufficient support, which, in

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addition to putting us at risk of falling into error, would prevent us from continuing to investigate and deepen in this interesting field.

The concepts that I have presented in the previous and present chapters such as liquid crystal water, quantum entanglement, DNA as a receiver of messages; each one has been discovered thanks to the hard work of different researchers, I believe that together the puzzle of the phenomenon we call bioenergetics can be formed. Personally, it does not seem to me that it is a completely finished model, probably in the future we will have more elements that allow us to understand in more detail the processes and phenomena that we are capable of accessing through mental effort. It is true that there are still several issues to be resolved:

- Are we sure that communication in telebioenergetics occurs at a quantum level?
  - In this case, how is it that the brain would go from a classical state (reasoning) to a quantum state (intuition)?
  - How is the nature of what we have called supraconscious?
  - Is the superconscious individual or collective?
- 
- Could an artificial intelligence capable of doing telebioenergetic sessions be created?

For the moment we adopt the quantum model only as a hypothesis, and to jump to conclusions would label us with what skeptics call "quantum quackery."

### Watch video:

- <https://www.youtube.com/watch?v=43vuOpJY46s> Quantum Physics of consciousness, Roger Penrose

Recommended lectures:

[La conciencia podría ser el resultado de procesos cuánticos en el cerebro](#) By Cristiane de Morais Smith, published in The Conversation <https://theconversation.com/profiles/cristiane-de-morais-smith-1251932>

The Emperor's new mind; by Roger Penrose.

1 - By: Cristiane de Morais Smith is Professor of Theoretical Physics at the University of Utrecht. First published in "The Conversation" and later in Tendencias21: <https://tendencias21.levante-emv.com/la-consciencia-podria-ser-el-resultado-de-procesos-cuanticos-en-el-cerebro.html>

# A turn of the spiral

## Unit 2 Lesson 5

Biomagnetism and bioenergetics mark a watershed in the history of medicine, perhaps as radical as in his time the revolution of Copernicus who said that the Earth was not the center of the universe, but a planet revolving around the Sun; or quantum physics that in the 20th century broke the concepts on which what we call reality is based.

First in 1988 upon discovering the Biomagnetic Pair, Dr. Isaac Goiz Durán opened a whole new branch of medicine operating from the energy plane through magnetic fields, with this new system medicine has taken a leap out of the physical plane into that had developed over the last few hundred years.

Starting in 1993, the practice of bioenergetics and shortly after, telebioenergetics took biomagnetism to an even more advanced level, which requires concepts closer to quantum physics than to traditional mechanistic science to understand it. That is why for most “scientific” minds it is difficult to take the “quantum leap” and accept what for the advanced biomagnetist is part of everyday life: mental diagnosis and remote treatment. That is why many people brand biomagnetism and bioenergetics as charlatanism, deception, trickery.

Just as in the Renaissance Galileo and Copernicus had to fight against the established ideas "the Earth is flat, and all the stars revolve around it". Partly a resistance caused simply by inertia, the comfort of staying within the framework of already established ideas. But also, largely due to the repression exerted by the Church; whose interests would be affected if a new truth began to germinate in the minds of humanity, which represented a threat to the power of the Church.

And now, in the 21st century, the circumstances are very similar. The revolution and the new paradigm started from the Theory of Relativity and Quantum Mechanics in the 20th century. However, most people still see the universe from a materialistic and mechanistic point of view, even people educated in science. We see that a paradigm shift takes a long time. Now the institutions of power are the pharmaceutical industries, which are the ones that dictate what is good for health (drugs, vaccines, and expensive and invasive treatments) and they defend themselves against those who could jeopardize the sales of their products, such as acupuncture. ,

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homeopathy, biomagnetism, reiki, etc. For which they orchestrate a global campaign to discredit and revile all these disciplines, some new such as biomagnetism, and others thousands of years old.

Evolution occurs in cycles that we can represent with the figure of the spiral. Humanity has completed a whole cycle, a turn of the spiral. Once again we find ourselves in a revolution, a great paradigm shift, a new renaissance and while Galileo Galilei said from his cell "... and yet it moves" referring to the movement of the earth; Dr. Goiz wisely said:

*"Keep quiet and heal, time will prove us right."*



Dr. Isaac Goiz Durán  
Descubridor del Por. Biomagnético

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# The Kybalion

Unit 2 Lesson 6 (optional)

Next, we present the book "The Kybalion" as it is representative of the ancient philosophies. In ancient times, the sages already conceived the universe as a great mind, and matter being just the product of this great Mind that could be assimilated to the Divinity, God, the Theurgist, or whatever you want to call it.

It is a treatise that summarizes in 7 principles the laws that govern the universe, from the most minute planes at the atomic level, to the immensity of the galaxies; Clearly going through all the scales and intermediate planes such as minerals, living beings, etc. The Kybalion was written in ancient Egypt, the place where the main schools of wisdom of the old world converged: Europe, Africa and Asia, so we consider that it summarizes the principles and wisdom, which in those times were reserved only for high initiates. Those willing to give their lives to the study of sacred texts to answer the great questions: who am I? Where do I come from? Where I go? Here is a summary of this valuable teaching. For those who like it, you can download the complete work on the internet or buy one of the many editions of the book.

The Kybalion is a teaching attributed to Hermes Trismegistus, therefore, it comes from ancient Egypt; and as we have already seen, it is actually a synthesis of three schools of ancient knowledge. It appears as a textbook in the year 1908, probably edited by the Theosophical Society or by a Masonic lodge in Chicago, USA. Although no group or person has attributed its authorship, from the beginning mentioning only "by three Initiates". Without further ado, we proceed to expose the seven hermetic principles, which must explain any phenomenon of the cosmos:

## 1. Principle of Mentalism

The known EVERYTHING, matter, energy, emotion, thought... is spirit, which in itself is indefinable, although it can be considered as an INFINITE MIND, universal and living. Our reality, as we know it, is a mental creation of the ALL, in whose mind we live, move and have our being.

Understanding this principle allows us to use the laws of the mind of the whole in our favor, using them for our well-being and for our



development. Being aware of this reality, understanding that the universe is mental, allows us to use the master key in our favor. Opening for us the doors of the Temple of mental and psychic knowledge and entering to work in it freely and intelligently. That is, live our life with awareness.

## 2. Principle of Correspondence

The ALL known, matter, energy, emotion, thought... is spirit, which in itself is indefinable, although it can be considered as an infinite, universal and living mind.

Our reality, as we know it, is a mental creation of the ALL, in whose mind we live, we move. There are many unknown planes that by applying this law we allow ourselves to become aware of.

This, like the others, are universal laws, applicable to all levels of consciousness, above, below and in all directions and realities. What is here is there.

This is one of the most important principles according to the Hermetic teachings. Well, it allows the veil of "Isis" to fall, of unconsciousness, and gives us clarity.

## 3. Principle of Vibration

Nothing is immobile, everything moves, everything vibrates.

And here the principle, already demonstrated by current science, that everything is in constant motion, from atoms to planets. Everything is constantly vibrating.

Thanks to the awareness of this principle, the differences between the different manifestations of matter, force, mind and even spirit itself, which are nothing more than the result of the different vibratory states, can be explained.

Everything is in vibration. The higher the vibration, the higher it is on the scale, the denser the matter, the lower the vibration. There are millions of different levels of vibration, therefore there are also millions of different levels of consciousness.

Understanding this principle allows us to understand the vibrations that we emit, both physically and emotionally, mentally or spiritually, we are constantly emitting different levels of vibration.

One of the oldest writers of Hermeticism said: "He who understands the vibratory principle will reach the scepter of power." Uno de los más antiguos escritores del Hermetismo dijo: "El que comprenda el principio vibratorio alcanzará el cetro del poder."

### 4. Principle of Polarity

"Everything is double; everything has two poles; everything, its pair of opposites: the similar and the antagonistic are the same; opposites are identical in nature, but different in degree; ends meet; all truths are half-truths; all paradoxes can be reconciled."

This principle tells us about duality. That is, everything is the same, only the degree of vibration between one and the other changes. Heads and tails are the coin seen from different angles. Therefore, opposites are the two extremes of the same thing. Hot and cold, temperature at different extremes, but both characteristics are temperature. Where does the heat begin? And the cold?

This principle shows us that everything is relative between two opposites and that everything is constituted by this principle. We have to keep in mind that this principle acts in the same way at the mental level. For example, love and hate, two poles with many nuances and degrees that differentiate them. In reality, we find infinite levels of precision between one extreme and the other.

And best of all, we can get to the point where we transform one feature into the other, bringing them closer together they merge. Let's see, what happens between good and evil? They are the same, there is no absolute evil or absolute good, and the Hermeticist knows how to transmute evil into good, hate into love... Actually, this is the alchemy from which the human being can really benefit. The art of polarizing.

Mastering the art of polarizing will set us free.

### 5. Principle of Rythm

"Everything ebbs and flows; everything has its periods of advance and retreat; everything ascends and descends; everything moves like a

pendulum; the measure of its movement to the right is the same as that of its movement to the left; the rhythm is the compensation.” This principle tells us that everything manifests itself with a particular movement, a back and forth movement.

An oscillation of the pendulum that, thanks to the principle of polarity, goes from one extreme to the other and does so in symmetrical proportions. Like action, reaction.

Again, this law is also a law that applies equally to all, affecting everything that exists, whether seen or unseen, conscious or unconscious.

Hermetists employ the mental law of neutralization to transcend this principle, although it cannot be stopped, they have learned to circumvent its effects to some degree. Degrees that will depend on the mastery of said principle.

The Master polarizes where he wants to be and neutralizes the forces that would take him to the other extreme of reality, keeping himself consciously mentally stable.

Both the Law of neutralization, as well as the law of counterbalancing or the law of using polarity at will, are an important part of Hermetic alchemy.

## 6. Principle of Cause and effect

“Every cause has its effect; every effect has its cause; everything happens according to the Law; luck is nothing more than the name given to an unknown law; there are many planes of chance, but nothing escapes the law”.

Nothing happens by chance, everything happens according to law. In Hermetic schools one learns to transcend the ordinary planes of cause and effect. And mentally reaching the higher plane they become causes instead of effects.

In general, people are carried away by the wishes and wills of others. If we learn to generate and recognize our vibration we will not get carried away by that of others.

Many times we fall into this maelstrom due to inheritance and learning that we must release and unlearn.

The Masters dominate their modalities, their characters, their qualities and powers, as well as everything that surrounds them. Becoming leaders instead of being directed.

In this way, the teachers can help the masses to live and deal with this great game of life. They use the principle instead of being an

instrument of it. The Masters are at the service of the higher planes, but they serve the plane where they live.

### 7. Principle of Gender

"The generation exists everywhere; everything has its masculine and feminine principles; generation manifests itself on all planes."

Generation, governed by the feminine and masculine principles, creates everything, on all planes, including the mental and spiritual planes.

Although it is known as sex on the physical plane, the same principle exists on all the other planes, mental, emotional, spiritual... remember the first of the 7 principles of Hermeticism. No creation is possible without this principle.

This principle always works in the sense of generating, regenerating and creating.

Every being contains the essence of both elements of this principle, feminine and masculine.

Everything related to generation, regeneration and creation is based on this hermetic principle. It contains the solution to many of life's mysteries.

That he who is able to read between the lines discover knowledge, this is the desire of the hermetic masters.