

BIOMIMITIC, THE PEOPLE AND THE SEA

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The medical professor at the University of France in Rennes, Dr Leroya, in the marvellous book "Man and the Sea", posted a question concerning all aspects of human existence of life and survival.

"Should we add years to life or life to our years"?

If we consider "Genesis", we will see the timeless meaning of the creation of man from clay. But who can tell us above people and other existences, which it is the date of appearance or disappearance from earth.

Life is a huge tree, whose deepest and friendlier roots directed to the sea. To them therefore we can orient ourselves to find not only the bases of creation but also the need of maintenance of life and health.

Our planet was a fused mass, which, while it froze, crystallized her surface in order to create soil, to yield the water that creates the sea and to release carbonic dioxide (the gaseous mantle, surrounding the globe).

It was a fact that in the water 3.000.000.000 years ago existed a catalyst, first microdrop of organic matter, which created the first life. It was a single celled seaweed, that developed progressively and became the world where we live today....we.

This catalyst, was microscopic single celled seaweed which still exists, genus "chlorella", released of oxygen.

"Chlorella" are used now in the space coat of astronauts in order to convert CO₂ of human breathing and regenerate essential oxygen for their life. Perhaps they give oxygen also in other planets without oxygen.

These monocytes were succeeded by multi-cellular organisms. The cells little by little were specialised in the operation of adaptation and created organic networks.

This constant disposal is confirmed on the one hand by the disappearance of alteration of cells and on the other hand lending in them (the cells) the necessary trace elements that must exist.

Besides these elements alleviating in seawater oxygen is found in constant dose in the open air by the respiration of plants. The organism should be directed toward this and in his derivatives.

The sea can therefore offer us all these elements and allows us to reconstruct the essentials for the basis life.

Already in antiquity the sea and her water were used for therapeutic aims. 2500 years ago, our ancestors, ancient Greek first formulated the term "[thalassotherapeia]" used internationally today and from then the use of sea and its possibilities appears continuously.

The main author of eustring of sea in the beginning of the 20th century was French biologist Dr Rene Quinton, who proved the analogy that exists between water of sea and the our bodily fluids of blood pulsing on.

In the 1904, in an experiment Dr Quinton took a dog and removed the blood almost all, up to point to find near to death. Then he transfused sea water osmotic with the same pressure and the same molecular condensation and equal quantity with the volume of blood that had been removed.

It was a risky experiment, but the dog recovered progressively and few days later was presented same illness as before the experiment. This made Dr Quinton utter the famous characteristic phrase:

“Our organism is nothing less than a marine aquarium in which swims certain billions cells”, phrase that reminds us all our marine origin and that the first life been born in the sea. In point of fact is a real physiologic term that is used and today still as in the Vietnam that saved the life of many military men during the war.

Indeed, wherever is used internal or externally, there were always exceptional therapeutic results: hydration, regulation of ions, improvement of circulation, increase of metabolism, better detoxification, harmonious operation of hormones, activation of natural immune defence.

The trace elements act as bio-catalyst that is essential for the process of physiological presses.

We term bio-catalyst the substance who's the role is to encourage or cause one or more chemical reactions necessary for our organic balance.

The property of trace elements varies in the surface of sea by the place, the season etc.

However at depths of 20-80 m. the composition of spa water is constant. These lend spa H₂O a hydro density than sweet or distilled water and a more inferior coagulability that it explains why the sea freezes with more aloud bodies of H₂O.

Trace elements are mainly metallic ions that are found as in all biological compositions. The principal ones are:

Sodium is the most important quantitative element. It is still the basic biological element without which life would be impossible.

Chloride plays an important role in the regulation of balance of osmotic pressure (arterial pressure, function of kidneys, nutrition of cells).

Potassium its role is both antagonist but also complimentary to Sodium. Potassium it is found in large concentration in cells of where it facilitates osmotic eucre.

Calcium is the basic element outside cellular humid and the cells. It in general plays important role in the coagulation of blood and the metabolism.

The magnesium is the regulator of metabolism of calcium and potasio in the organism. Acts in the cells and mainly in your cellular membranes, doorkeeper that checks the entry and the exit the calcium - potasio and mainly water. His role is important in the resistance of organism in the tiredness so much in muscular what nervous and mental.

The iron basic component of [haemoglobin](#) red corpuscles that transports oxygen. It is incorporated with the presence of coper and cobalt in [haemoglobin](#). Contributes in the immunogenic system of organism and his lack causes anaemia.

Cobalt. The ion of cobalt is element of molecule of vitamin B12. Except that he is producing at the anaemia via vitamin [B]12, it regulates the likeable nervous system and it moderates thus the convulsions of arteries. It is considered as vessel [diastaltiko].

Coper. It contributes in the creation [haemoglobin](#), in the maintenance myelinis, the nervous fibres, and still in the creation of bones, hair, and nails. It acts in thyroid and the genital glands.

Iodine. 99% are found in the thyroid. It regulates the growth, the combustion of grease, the growth of mentality, the operations respiratory and kidneys. His lack can cause bronchocele, but his exaggeration leads to slimming, nervousness and cardiac problems.

These are just a few of the 104 trace elements that our organism sequins. The insufficiency is due not to only diet but can result from chemical reactions caused by the environment, such as the atmospheric pollution or alimentary (preservatives, food colouring, fertilizers).

So, while trace elements in all stages of metabolism as bio-catalyst, essential for the physiological operation of an organism, their lack leads initially to various daily sensations such as tiredness, headache, bad mood of unspecific ally causes it, and in the more serious cases in damage that I reported previously.

Lets look then at the trace elements in sea water and in human blood plasma.

Seeing therefore this relation, and stand across the importance of elements of sea and their effect in our organism. Continuing we will speak about seaweed, its contribution and action.

SEAWEED

Seaweed, first born of sun and sea, was as we have seen has the first living thing on our planet and it is a fact that without them earth would still be a vast descent.

The first accounts about seaweed were found in the manuscripts of Chinese doctor Chen Nung, who wrote about their attributes at 3000 b. Ch.

Our ancestors seaweed, with the passage of time developed differentiated considerably. Today roughly 35.000 types that have been classified are separated in 4 big categories: blue, red, the greens, brown and continue playing important role in the maintenance of life generally speaking and more specifically in ours.

The seaweed of whatever category present exceptional interest for researchers and their use today is the multiple. A lot of types are used in the daily diet of the Far East: China, Japan, Korea, Indonesia and Islands of Pacific) and even in America, Northern Europe, Britain, and France).

Most seaweeds offers to us a full complement of essential elements for a well balanced diet and give a exceptional possibility of combating the "illnesses of civilisation", we mentioned heart attacks sutra, hypertension, strokes, rheumatism, obesity, allergies and neuropsychological illnesses.

Apart from the diet they are also used medically and pharmaceutically as stimulants of the metabolism and for all illnesses of modern culture. However spectacular results they are in cosmetics thanks to action that they offer.

Seaweeds do not have roots and depending on the type develop either on the suited or the depths. The bacteria that exist in depths have the possibility, absorbing even a small quantity of blue solar spectrum of synthesis chlorophyll and thus is created the blue seaweed. This is the process of photosynthesis in which is produced oxygen. This going up to atmosphere with the help of the sun creates also other species of seaweed. Thus we have the red seaweed. These absorbing more energy make the green seaweed. The green seaweed is related to terrestrial plants. These of course are adapted to other conditions in order to survive.

The seaweed is in water, land plants absorbing H₂O as roots also trace elements. The transformation of green seaweed to a tree required 6.000.000 years. At the transformation we have polysaccharides. The band of a tree is its cover as is a yelsons shy for the person. Finally we have brown seaweed that is found in shallower depths than green seaweeds. Because they are found near the surface they develop greater defences and produce polyphenola as protection from the solar radiation in action. For that reason they are antioxydant and protect us from the UV radiation. In our skin respectively, we have natural filters of protection, as the melanine (this is marine biomimitism).

Also researches have discovered certain fossils, in Australia and in Africa, found in very clean and hot waters which lind ours. In order to create these rocks it needs millions of years. If we cut this rock we confirm for one more time the correlation of aspects that exists with the human skin. These rocks emanate from the blue seaweed and are named the "eternal seaweed". ***

Other effective component that we find in the sea is kitini that with cellulose is the widespread polysaccharides.

Kitin with the proteins they contribute in the cohesion of various layers and create the nutshell in prawns, crawfishes, lobsters, shells. In cosmetics it was confirmed as exceptional product.

Her chemical structure resembles with the one yaloyronikoy and eparin that is the hydratical elements for the skin. The advantage is double: from the one they give water and from the other they retain endogenous water and prevent the dehydration.

Kitin it creates a film protective and strains the cuticle. Her [RI] is lightly acidic as the skin and has the same acidic elements with them keratin.

Kitin it is one from the last ones you discover cosmetics and constitute from the most ideal components for the hydration of skin and base of most advanced products at the old age.

Which actions have therefore the seaweed and what do they offer us?

- 1) Stimulation: Improve circulatory and positive effects in the Obesity and cellulite.
- 2) Tonic: with tightening of dermal web and exceptional results in the prevention and Treatment of wrinkles.
- 3) Detox: better expulsion of toxins
And glands, source of liveness of
Skin, that as result has healthier colour -
Better situation of our health.
- 4) Balancing the hydration with proteins, vitamins and
trace elements that regulate fast the problems of dry,
sensitive and greasy skins.

Globally via their action it appears clearly that the regular use of seaweed in the cosmetic products anticipates or restores the smoothness, elasticity, of the skin braking considerably [senescence](#), gives solutions and result in the problem of obesity, cellulite, local thickness in the edemas.

Lets see now some of the seaweed that uses PHYTOMER

- **Laminaires:** brown seaweed of mainly Atlantic with length 3-4 metres.
Contains: Vitamins A, B, C, D, E, K, amino-acids, trace elements, metal salts, iodine.
Action: Activation of metabolism thus the slimming, the good circulation of lymph and purge thanks to mannitol contain.
- **Fucus Vesiculosus and Ascophyllum:** Brown seaweed shallow water with length until 1 metre.
Action: It activates the metabolism and thyroid function.
- **Ulve:** Green seaweed of rocks and coasts.
Components: Rich in vitamins B iron and zinc.
Action: Tishreny of webs, antiwrinkles, improves the microcirculation and counterbalances the glands.
- **Chlorella:** Green microscopic fresh water seaweed of sweet waters.
Components: Vitamins [B]12 and PP and iron.
- **Chondrus Crispus:** Red seaweed of coasts with length until 20[m].
Components: Vitamins [B]2, C
- **Palmata Palmaria:** Red seaweed of coasts of length until 40cm. very nutritious.
Components: Vitamins mainly [B]12, amino-acids and mainly rich in trace elements, magnesium, cobalt, manganese.
Action: Reformation and cellular renewal.
- **Spiruline:** Blue microscopic seaweed of 0,25cm from alkaline lakes from Tohad Mexico and cultivable.
Components: Organically sugars 18% [anti] the 60% of marine seaweed. Lipids 8%, 6,5% insatiable basically greasy acids, basic in the prevention of cardiovascular diseases and obesity.
Proteins 65-70%: 2 times more from the yeast of beer and 3 times more from the fish and the non fat meat with all basic amino-acids.
Vitamins: Mainly [B]12 (2 times more from the liver) provitamin A and E. Inorganically Iron - ferments (protease, amylase, anti-inflammatory)
Action: Anaplastic, Astriction, anticease, Anti-inflammatory, It cuts the appetite

On the body the various seawood wrappings can result in a large variety of cares.

- Maintenance of tissue
- Localized imperfections, fat lads
- Fat Dissolution - Slimming
- Reinforcement of membrans
- Detoxification (they regulate, they transport and remove toxins)

The wrappings create two energies

- THERMIC
- CHEMICAL

THERMIC

Heat encourages exchanges in the level trichoid and the circulation generally, increasing simultaneously the burning of calories. In this wrappings the heat acts via means hot blanket or "Spa-Jet", that thanks to the infra red beams that it has also because their compatibility of frequency with the heat of body they make bigger

Infiltration and we have better detoxification and in combination with the steam we achieve better results.

CHEMICAL

The marine ions penetrate the dermal barrier while the body is submitted at a temperature equal or superior of 34 °C for a time interval roughly 15 min. The marine ions are carriers that contribute in the expulsion of toxins that remain accumulated in certain points of body. The greater the surface of body covered with product to more significant is the quantity of ions penetrating the cuticle.

THE PHYTOMER, WITH CONCRETE AUTHENTIC AND EFFECTIVE CARES CAMPINAS

Phytomer and marinely cosmetics they are identical significances, with dynamic communication and fairly occupy the first place worldwide.