

ROLUL APEI REVITALIZATE IN SISTEMELE BIOLOGICE **THE ROLE OF REVITALISED WATER IN BIOLOGICAL SYSTEMS**

Yurii Rakhmanin, Alecu Ioan-Nicolae, Georgeta Temocico
Russian Academy of Natural Sciences
University of Agronomical Sciences and Veterinary Medicine. Bucharest, Romania

Abstract

All living beings depend on water. Our water sources available today have lost their natural life force and energy. The physical structure of water can be damaged. According to Johann Grander, an Austrian naturalist and researcher, the water can be revitalised, which means restoring its power of resistance and self-purification by transforming molecular clusters into a smaller group which may enter the cells and help oxygen become more available. The water is the storage of a force and special power which give life, health and vitality. Those properties can be decreased or lost, as effect of environment influences or industrial treatments.

Keywords: water energy, clusters, information transfer

Cuvinte cheie: energia apei, clusteri, transfer de informație

1. Introduction

After many years of experiments, Johan Grander, an Austrian naturalist has developed a method by duplicating Nature's way of implanting into water the range of natural oscillations necessary to restore it to its energised state when unaffected by any human intervention. His ideas and technology is now used to revitalise water. Many top scientists worldwide say the process used to revitalise water, among them: Prof. Vladimir Kondratov (Russia's "Einstein") and Prof. Yuri Rachmanin, both with over 40 years of water research, concluded that the Living Water technology is totally unique and may be a system that makes water permanently healthy using only natural forces (more than 60 devices/methods were tested over a period of years). Experts in the scientific communities as well as homeopathy and holistic sciences have proven the "Memory" of water; the carrying capacity of water for "energy," and the ability of water to "remember". Experts realize that water retains information, even after the most stringent purification and filtration processes. This is termed the energy signature or vibrational imprint.

2. Results and discussions

2.1. Revitalized water

Denie Hiestand, writes in his book 'Electrical Nutrition' that water has to be 'alive' to be able to electrically interact with our cells; *he also claims that there is not one part of the body's systems that can function properly in the absence of electrically alive water.* According to scientists the water's molecular size is measured in clusters. Most waters cluster size is too large; it can't enter the cells effectively. Waters cluster size is best when its very small - that means it can be absorbed on a cellular level carry nutrients into the cells & remove toxins more easily. Scientists contribute premature aging and disease to the reduced ability of the cells to release toxins. Johann Grander stated one of the essential features of any living water is the uniform circular rim to a drop of water. With magnification of 6000 to 7000 times the structures become visible. When a drop dries out, a definite grid pattern of visible harmonious structures is proof of a living and healthy water. By comparison, contaminated and damaged water has a deformed and variable rim, and does not contain any structure- only visible particles of dirt.

When the Russian scientists began to investigate the technology of Johann Grander in 1997, they already had around 20 years of experience in the investigation of different non-traditional water technologies where the structure of water is changed. These include treatments at low or high temperatures, cavitations' impulses, influences with cold plasma, laser radiation, low and high voltage discharges, electrochemical, magnetic, electromagnetic treatments and many, many more. They do not know how Johann Grander treats the water. But they do know one thing with certainty: in six years of in-depth investigations on micro-organisms, animals and humans, they have not been able to find one single negative effect.

Russian scientists began the investigations on micro-organisms, because they often react very sensitively to the water structure. Overall, were tested 11 groups of pathogenic bacteria, and quasi-pathogenic bacteria, such as Salmonella. The effect of Grander Technology is to accelerate the death of these bacteria, which we see as the result of a change in the environment in the water. In addition, we were able to find an increased self-cleansing effect and micro-biological stability.

The interest was to see what happens when the water is treated, that is known to have a mutagenic effect, with Grander Technology. In a number of trials with different types of water, the results

gave us the opportunity to find that the influence of Grander Technology information technology significantly reduces this effect.

Recently in Russian Federation were completed a series of investigations on people under strict scientific principles. We combined traditional methods of cell analysis with the latest, non-traditional diagnostic techniques. The different groups were given different types of water to drink, and nobody knew which one they had just drunk. The first conclusion was an improvement in the gastro-intestinal tract after only a few weeks. Even more pronounced were the positive results of the examinations of the cells taken from smears of the mucous membranes of the nose and mouth.

In more than 20 years of research, the Russian researchers come to believe that physical parameters must also be included in the quality control of drinking water since they play a very important role in health. The bacteriological stability of drinking water is very important, and this is not so difficult for water from the tap because the time from the preparation to consumption usually only fluctuates from between a few hours up to a few days. It is somewhat more difficult for bottled water. A period of several months or even of a year or more often passes before consumption, and we believe it is necessary to revise the regulations here.

2.2. Improve of the physical structure of water

The physical structure of water is a system of matter and energy teeming with activity. At the level of individual water molecules, the system is in perpetual activity and due to the dipole moment of water and other physical qualities of the system; the way the individual molecules interact with one another is highly variable. This interaction is interested to be improved.

In the last years, scientists discovered that water has the capability to display coherent behaviour, not to produce light like a laser, but as a type of “synchronizing” of the dynamic behaviour that is taking place at the molecular level. Very simply, coherence is a type of organization at the fundamental level of the water system. It is also characteristic of the fundamental structure of all living systems. A coherent system can store and use energy in ways that an incoherent, or disorganized system, cannot, and living systems use this to their advantage all the time. If is possible to improving the physical structure of water, that means to improving the relationships between the individual particles of water (and minerals) in the system.

Is not about changing the form of H₂O, but are affecting how the countless H₂O molecules in the system behave with respect to one another.

Weather that is relatively stable produces conditions that make it easier for plants to grow, easier for us to work and play, easier for animals to survive. Survival is less of an issue and so it is possible to spend time and energy on other activities, like producing fruit and seeds, building societies, and raising offspring. If the weather becomes unstable, the resulting imbalances make it more difficult to simply survive. Shifting rains and droughts, massive and intense storms, and large swings in temperature all can occur unexpectedly and this challenges the ability of the entire ecology to adapt and survive.

Often complex and thriving ecologies are reduced to much more simplified versions that are in “survival mode”. In water, if the water’s physical structure is organized and coherent, it is analogous to good, stable weather patterns. It is possible for a wider variety of micro-organisms to thrive, and these results in a more beneficial ecological community in natural water systems. This more complex community of organisms naturally breaks down nutrients in the water at a faster rate and keeps pathogenic organisms in check.

If the water’s physical structure is damaged, however, as is often the case in our modern communities, then the micro-organisms in the water are under more stress, do not have as much energy for metabolizing food and waste in the environment, and the water quality begins to suffer. Pathogens have an easier time and a freer reign because the natural checks-and-balances found in the more beneficial ecology are absent. This is a model of how the effects on the water’s physical structure can impact the microbiological dynamics in the water system. Is there any proof that these changes are actually occurring in the water.

2.3. Conclusions of Russian Academy of Natural Science concerning revitalised water with Grander Technology

The scientists from Russian Academy of Natural Science have studied the Grander Technology over several years, specifically to better understand how it works. They have measured and observed the changes in the water’s physical structure and in how the waters physical structure utilizes energy from the environment, and have suggested that this is how the technology functions.

According to Russian scientists “The Grander Technology can have its effect by absorbing very small energy spectra from its environment. And because of its structure, it is also capable of radiating a very specific energy spectrum to nearby water.”

Their findings were not a surprise to Johann Grander, the inventor, who has said repeatedly that the water achieves its optimal qualities and internal order through its relationships with the environment.

Regarding the microbiological changes that develop in the water after treatment, these have been confirmed by the Russian Academy scientists, and by various additional academic institutes. How can this approach, which actually helps bacteria function even better than before, produce a situation in which bacteria counts are reduced? It is true that in the most general sense the effects of the Grander Technology result in improved conditions for all organisms within the water, pathogens and non-pathogens alike; however, a very interesting process occurs when the stresses in the system are reduced. Instead of resulting in an explosion of undesirable bacteria, treatment helps many types of beneficial organisms that were not very active before, to become much more so. When this increased activity develops, beneficial organisms access and metabolize nutrients at a faster rate in the water system, and so the food that was previously "lying around" to sustain many of the less desirable organisms is no longer as readily available. Thus, the overall nutrient loading is reduced, and the ecological system reaches a much healthier and more balanced condition. In this condition, the niches for the heartier types of organisms, which coincidentally are often less desirable from our perspective, are no longer as readily available. In essence, their services are no longer required by the natural system. Thus, the entire system functions better, producing an ecology that lowers nutrient loadings and crowds out more sluggish, less desirable populations.

The more balanced system has more internal checks and balances that prevent undesirable organisms from multiplying out of control. This is what Johann Grander has termed "water's immune system". The objective of treatment is never to kill or increase the stress on the system, but to provide support for the system so it can achieve a balanced condition in the shortest period of time possible, and sustain it. It turns out that when supported in this fashion, Nature produces a highly desirable and self managing ecology within the water system.

The Russian Academy of Natural Science researchers have conducted tests on the viability of various specific types of bacteria in water systems treated by the Grander Technology. Their experiences show an accelerated death rate of many types of pathogenic organisms in treated water. Included in their studies were *E. Coli*, *Salmonella*, *Legionella*, and *Klebsella* among others. The results showed an accelerated death rate of these organisms in treated water systems. In general, no guarantee may be made that any specific type of bacteria will be held to undetectable levels in a treated water system. The more balanced ecology within the water system that develops in response to treatment with the Grander Technology is one which naturally constrains the growth of these pathogenic organisms.

In their opinion, this solution is as good as or better than the use of biocides in many applications, such as cooling towers, where the water is not being used for potable service, and where chemical treatment cannot guarantee that any specific organism will be undetectable either. The balanced ecology produced by treatment is self-sustaining, and actively working around the clock to maintain beneficial water conditions.

For drinking water systems and other more critical applications, the Grander Technology system should never be used as the primary disinfectant. Beneficial results may still be achieved in terms of the microbiological stability of the disinfected water.

How can the effects of Grander Technology be explained in terms of the basic Laws of Thermodynamics, which seem to suggest these claims are impossible? First, it is important to consider the thermodynamics of living organisms. Our own bodies maintain a very highly ordered system by converting the nutrients and raw materials from the food we eat into their structure. Thus, we use the flow of energy that we receive from our surroundings; in the form of the food we eat, to sustain ourselves. This does not violate the Laws of Thermodynamics because we are "open systems" that receive energy from our surroundings. The issue is that it appears on the face of it that the Grander Technology devices are "closed systems". They are not being fuelled, or plugged in to an outside energy source, so how can they be an open system like an organism?

3. Conclusions and perspectives

With the origination and evolution of living matter, the water molecules, the cells and the tissues exchange biophysical fields among them. Depending on the energy status, the energy from the environment is either received in the living organisms ("give" mode) or is lost ("take" mode) (Dr. Ignatov, Antonov, Galabova, 1998). The same authors prove that in "give" and "take" mode an energy redistribution is effected between water molecules. The duration of the information stored is four months.

Exist already interesting proof that several molecules from a certain substance can significantly change the structure of water clusters. Homeopathy is a classical example for this. The homeopathic principle was reproduced on biological models. When to one of the immune cells types in man specific antibodies interacting with them were added, a cell reaction was observed. Upon decrease of the concentration of the antibodies in some dilutions, an effect was observed, and in other cases – it disappeared. Such an alteration of biological activity of "solutions" was also observed in concentrations when the probability of the presence of even one protein molecule was only slight. The authors presumed that the transfer of biological information was due to the "memory" of water.

Yet what is the probability for a formation of water clusters, micro elements and additional conditions to create organic molecules, and, subsequently, living cells. Lets look at the smallest living cells. The smallest bacterium *Micrococcus progreiens* is 0,1 μm in diameter. The myco plasma is also 0,1 μm . This means that these cells are 1000 larger in diameter than the hydrogen atom. The myco plasma has the requisite macro molecules for the existence of a living cell. The interesting thing for it is that it has a flexible membrane, not a solid one, like the other cells. The mycoplasma reproduces through the formation of coccus-like structures or division. The electric properties of the membrane, which is 0,1 μm wide, do not differ from those of the remaining cells.

The structure of clusters of water molecules with dimensions 1,1 μm / 1,1 μm / 203 \AA is stable regarding the effectuation of biological processes. (Zenin, 2002).

Defrosted water is exceptionally "active". In spring, an increase of the amplitudes in the spectrum of water, measured through the DNES method is observed. In this season birds and animals drink water from defrosted ice. Plants also grow quickly from this water. Defrosted water has a stimulating effect and is used successfully for the convalescence of diseased people after an operation.

Scientists from the Royal Medical Institute in Stockholm report of a successful treatment of diabetes with defrosted water. The healing properties of defrosted water are due not only to the more "active" spectrum, but also to the element deuterium. The water molecules in which the hydrogen atoms are from the deuterium isotope have difficulty passing through the cellular membrane. Marinov reported of a quick growth of flowers in Siberia. Together with Russian scientists in the 70ies, he proved that the water in the region contained less deuterium. Experiments were conducted proving "activation" of the spectrum of water, which is frosted after bioinfluence in "give" mode and defrosted before the spectral analysis.

The Institute for Vegetable Research and Quality Assurance within the Ministry for Agriculture in Beijing has performed plant tests with and without application of revitalised water on behalf of New DAWN Environmental Technology Co. Ltd. from Hong Kong. In a first study they planted leaf vegetables and radishes in various test plots, where four of the plots were irrigated with non-revitalised tap-water and the other four plots with water revitalized using Grander Technology. A Grander Revitalisation unit (11/4 size; W540) is fitted to the water-supply pipes to the plots to be irrigated with revitalised water. The tests were performed in Beijing at the Supervision and Testing Centre for Vegetable Quality, Ministry of Agriculture. To ensure that the tests could be reproduced as accurately as possible, all the plots for the water cultures were built up from the same basic materials: grass coal, firing slag and vermiculite. The results are obtained by calculating the mean value of plant tests made with large numbers of samples and they are therefore significant from a statistical point of view. The plants were observed and examined during all important phases of growth.

The following parameters were tested and compared using Grander revitalized water and non-revitalised water: number of leaves, vegetable mass above ground and root fibres underground, dry weight of the plant above ground and root fibres underground, nutrient content, proportion of extracted fibre, sugar content, proteins, flavour, yield.

Results are more than suggestive. On leaf vegetables yield increases by 13% roots are formed much faster in young plants, providing the plants with greater resistance during their first phase. On radishes, vegetable mass and dry weight increase, proportion of extracted fibers decreases, yield increases by 12.75%. In the case of radishes it is noticeable that after an initial strong development of leaves above ground, the increase in mass progressively shifts towards the fruit as development proceeds. Non-revitalised plants show a more uniform growth process. It seems that revitalization causes the plant's strength to concentrate where it is needed most.

The Institute for Vegetable Research and Quality Assurance within the Ministry for Agriculture in Beijing has performed a second study shows the effect of the application of the revitalized water to tomatoes. The experimental plots were set up as in the first study, although some additional parameters were measured. Again the high number of samples had taken guarantees meaningful results (plant height: +13.07%, stem thickness: +5.88%, vegetable mass above ground: -2.67%, dry weight of the plant above ground: +9.90%, sugar: +24.56%, lycopene: +25.48%, increase of nutrients and trace elements, extracted protein: +6.56%, yield increase: +11.85%. Additionally the different sugar-acid ratio improves the flavour of the tomato. Another interesting thing, already described in the previous study, is that the plants concentrate their strength on building up a strong root mass during their early phase, whereas the increased growth shifts to the fruit in the later phase.

4. References

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