

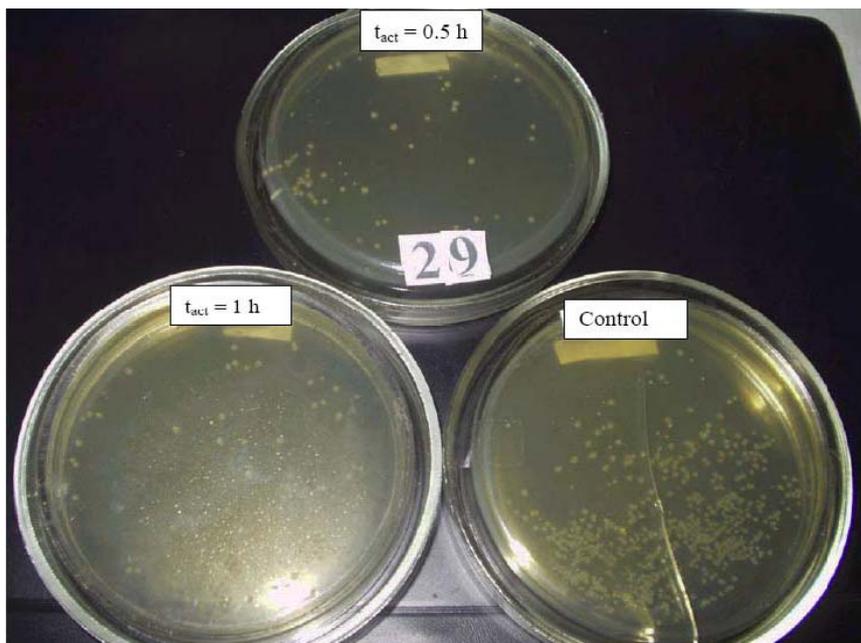
Biological and Microbiological Properties of MRET Activated Water

MRET activated water and its successful application for preventive treatment and enhanced tumor resistance in oncology

MRET Activated Water is produced with the help of patented in the USA by Igor Smirnov, Ph.D. Molecular Resonance Effect Technology (US Patent No. 6022479). MRET water activator is the stationary source of subtle, low-frequency, resonant electromagnetic field with composite structure. MRET Activated Water with the modified molecular structure, physical and electrodynamic characteristics may enhance specific molecular mechanisms in living cells [Vysotskii, Smirnov 2005]. The research regarding the physical parameters of water confirmed that MRET treatment of distilled water led to substantial modification of basic physical-molecular properties of water. The anomalous viscosity of MRET water (subject to very low tangent pressure) and electrodynamic characteristics of MRET water (subject to applied electromagnetic field of low frequency range) confirm the high level of long-range dynamic structuring of water molecules in polarized-oriented multilayer formations in activated water produced with the help of MRET activation process. The similarity of molecular formations of cell water and MRET activated water contributes to their compatibility, easy bio-availability and assimilation of MRET activated water in biological systems.

The anomalous electrodynamic characteristics and viscosity of MRET Activated water provide some evidence regarding the possible effect of MRET water on the proper function of cells in biological systems. It is well known that cellular processes in biological systems are driven by the low energy of bio-chemical reactions inside and between the cells and cellular structures. Consequently, such processes create subtle low frequency electromagnetic field and low tangent pressures along water surfaces and the membranes between the cells. The anomalously low viscosity, dielectric permittivity and electrical conductivity of MRET water in the range of very low frequencies that exists in biological systems can contribute to the enhancement of the cellular transduction mechanism and result in improved intracellular/extracellular water exchange and the proper function of cells in biological systems.

Taking into consideration the ability of MRET water to enhance morphology of blood cells and to suppress mutated cells *in vitro* [Smirnov 2006-2, 2006-1, 2003], high germicidal activity of MRET water, the inhibition of growth of *kaluss* tissue (mutated cells of botanical origin) in MRET water already confirmed by previous researches, the investigation regarding the effects of different fractions of MRET water on mutated cells in tumors and on the cells of immune system *in vivo* was conducted at Kiev Institute of Experimental Pathology, Oncology and Radiobiology, Ukrainian Academy of Science [Vysotskii 2006].



The view of the most representative Petri dishes with grown colonies of *Escherichia coli* K-12 in 29 hours after the beginning of experiments: (a) **Control**: number of cells NC = 1.7×10^8 cells/ml; averaged diameter of grown colonies $d = 1.2$ mm (b) **Time of activation 0.5 hour**: number of cells N0.5 = 6.4×10^6 cells/ml; averaged diameter of grown colonies $d = 2.7$ mm (c) **Time of activation 1.0 hour**: number of cells N1.0 = 5.6×10^5 cells/ml; averaged diameter of grown colonies $d = 2.0$ mm.

The goal of this investigation was to study on mice the effect of MRET activated water as a potential agent for the prevention and treatment of two kinds of oncology diseases (laboratory models of Ehrlich's ascites tumor and Sarcoma ascites form). Significant positive effect of MRET activated water regarding the tumor resistance on animals was observed in the experiments conducted on 500 mice (22 groups with 20 mice in each group and 10 groups with 5 mice in each group). The best results were observed in the groups of mice on MRET water activated for 30 minutes (optimal regime of activation). The significant anti-tumor effect of MRET Activated Water on mice was close to the action of the chemotherapy agents and allowed to avoid the side effects that typically follow chemotherapy treatment in oncology.

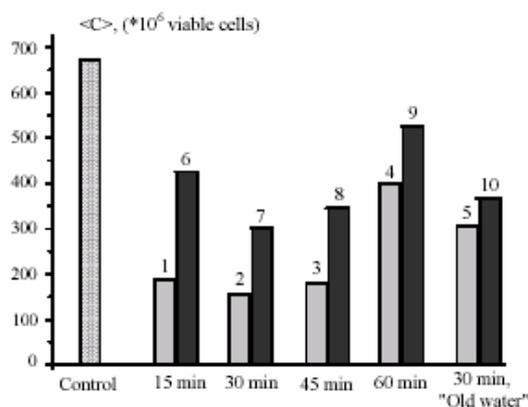


Fig 1: The effect of preventive (1–5) and therapeutic (6–10) application of MRET activated water on average total number of viable cells $\langle C \rangle$ in an ascetic tumor, obtained from mice inoculated intraperitoneally with tumor cells of Ehrlich carcinoma.

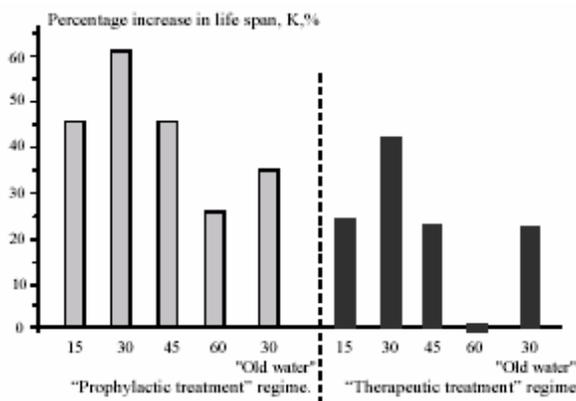


Fig 2: The change of the percentage increase of life span of tumor-bearing mice with ascitic Ehrlich carcinoma which received different types of MRET activated water in "preventive treatment" and "therapeutic treatment" regimes. The digits under the charts correspond with the duration of water activation in minutes.

References:

- Smirnov, I.V. (2007) "MRET Activated Water and its Successful Application for Preventive Treatment and Enhanced Tumor Resistance in Oncology" *European Journal for Scientific Research*, Vol.16, No.4: 575-583, Germany
<http://www.eurojournals.com/Vol%2016%20No%204.htm>
- Smirnov, I.V. (2006-2) "The Physiological Effect of MRET Activated Water on Patients Suffering from AIDS" *Explore*, Vol.15, No.2: 37-40, USA
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According to Molecular Resonance Effect Theory developed by American scientist Igor V. Smirnov, Ph.D. MRET activated water is beneficial for biological systems due to its long-range dynamic polarized-oriented multilayer molecular structuring compatible with the cell water structuring described by Dr. Gilbert N. Ling (2003) "A New Theoretical Foundation for the Polarized-Oriented Multilayer Theory of Cell Water and for Inanimate Systems Demonstrating Long-range Dynamic Structuring of Water Molecules" *Physiol. Chem. Phys. & Med. NMR* 35: 91-130, USA. MRET water hydrates the cellular structures in the body, enhances the intracellular/extracellular water exchange, the metabolism and the reactions of immune system.

MRET Activator is a household appliance, not a medical device. Any pure drinking water or other liquid food substances like milk, vegetable oil, juice and wine can be activated. You also can use MRET water for cooking and keep cooked food in the refrigerator. Biological and physical tests conducted on MRET water confirmed that it had the best properties beneficial for health

right after the activation and kept substantial part of them after storage at room temperature for several hours, refrigeration for 45 days and heating.

Interview of Dr. Smirnov “MRET technology”:

http://www.youtube.com/watch?v=RB0A_MqcmF8

MRET activated water inhibition effect on growth of conditionally pathogenic microbiological culture *Escherichia coli* K-12 in aerobic environment

MRET water effect on the growth of microbiological culture *Escherichia coli* K-12 in nutrient medium meat broth with 1.5% agar was studied at Kiev Institute of Microbiology and Virology of Ukrainian Academy of Science. The goal of the investigation was to find out the effect of MRET activation process of water based nutrient medium on growth, vitality and life cycle of *Escherichia coli* K-12 cells, growth of colonies on the surface of agar and the size of grown colonies. The experiment revealed the significant effect of MRET activated nutrient medium on the process of cloning of *E.coli* microorganisms, their division, the size of colonies and the form of their cell-like division in *aerobic* environment. It was observed that at low initial concentration of cells of investigated culture *Escherichia coli* K-12 MRET nutrient medium activated during 30 minutes and 60 minutes inhibited the growth of culture **27** and **303 times** respectively during the 25 hours of experiment.

Cultivation of colonies was produced at 20°C in *aerobic* environment. Initial view of Petri dishes with different fractions of nutrient medium at the beginning of experiments is presented on Pic 1.



Pic 1: Petri dishes at the beginning of experiment. Identical very small amount of *Escherichia coli* K-12 cells was inoculated on a surface of non-activated nutrient medium of control dishes and on a surface of dishes with activated nutrient medium ($t_{act}=0.5h$ and $t_{act}=1.0h$) in *aerobic* environment. There are no colonies of microorganisms in Petri dishes at the beginning of experiment.

Two groups of samples of water based nutrient medium were treated by MRET device for 30 minutes and 60 minutes respectively. After that both non-activated (control) and activated medium samples were kept for 24 hours in sterile environment

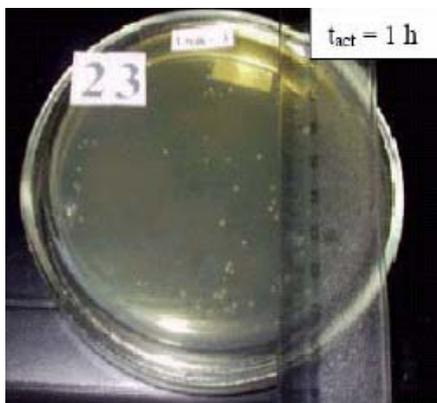
at 5°C temperature. Then *E.coli* bacteria were inoculated on the surface of non-activated samples and of two fractions of activated samples at 20°C temperature. The growth of *E.coli* bacteria began on the 17th hour of experiment. The pictures 3 and 4 show the test results after 23 and 29 hours of experiment. The significant inhibition of growth of *E.coli* in activated samples was revealed and it confirmed the strong germicidal effect of MRET water. Petri dishes with grown colonies and statistical parameters of the colonies after 23 hours of experiments are presented on Pic 2: a) non-activated nutrient medium (control); b) nutrient medium activated for 30 minutes; c) nutrient medium activated for 60 minutes. Petri dishes after 29 hours of experiment are shown on Pic 3.



a) Control:
Number of cells $N_C = 1.7 \times 10^8$ cells/ml.
Average diameter of grown colonies $d = 1.1$ mm.

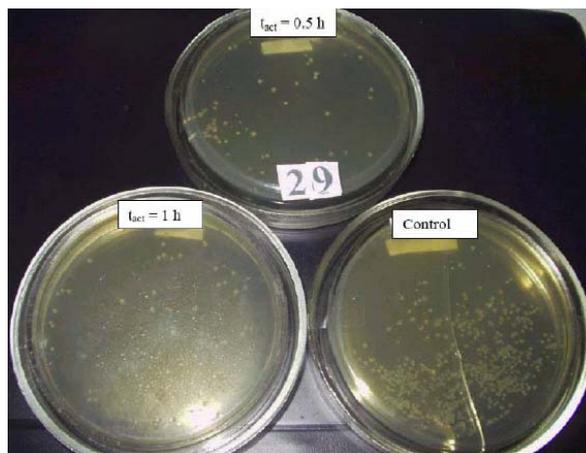


b) $t_{act} = 30$ minutes:
Number of cells $N_{0.5} = 6.4 \times 10^6$ cells/ml.
Average diameter of grown colonies $d = 1.8$ mm.



c) $t_{act} = 60$ minutes:
Number of cells is $N_{1.0} = 5.2 \times 10^5$ cells/ml.
Average diameter of grown colonies is $d = 1.5$ mm.

Pic 2: Petri dishes after 23 hours of experiment.



Pic 3: Selected Petri dishes with grown colonies of *E.coli* K-12 after 29 hours of experiment.

Inhibition of *E.coli* growth in aerobic environment

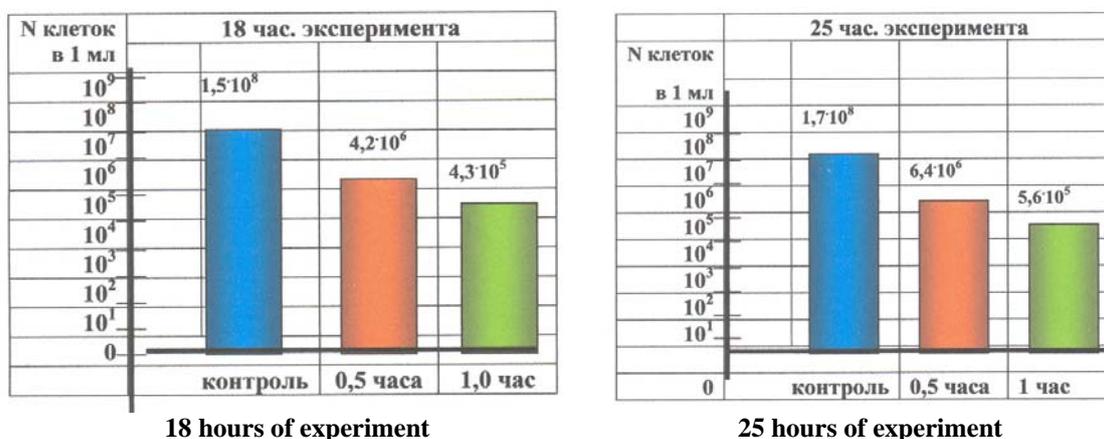
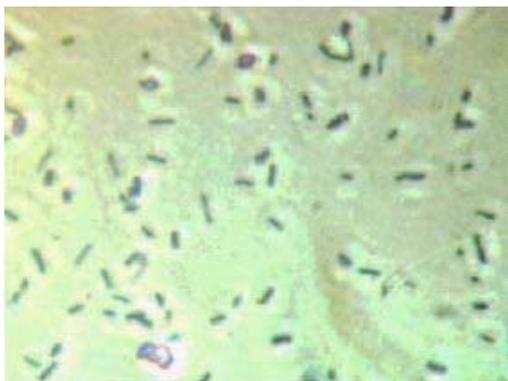


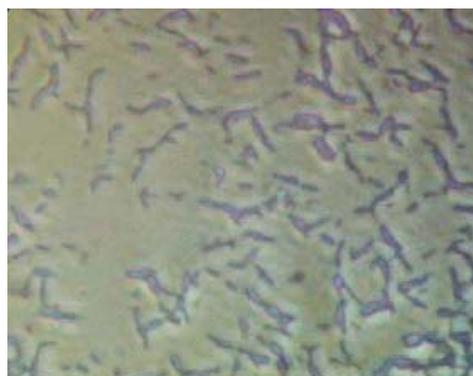
Fig 1: The inhibition of *E.coli* growth in **aerobic** environment: 303 times ($t_{act}=1.0h$) and 27 times ($t_{act}=0.5h$) after 25 hours of experiment (blue color – control, red – 30 min. and green – 60 min. activation).

This experiment shows that MRET activation process has very strong germicidal effect on pathogenic *E.coli* microorganisms and that the inhibition of *E.coli* growth is more effective when activation time is increased. It was observed that at low initial concentration of cells of *E.coli* in nutrient medium MRET activation during 30 minutes and 60 minutes inhibited the culture growth $N_C/N_{0,5} = 27$ and $N_C/N_{1,0} = 303$ times respectively after 25 hours of experiment. [Vysotskii 2006].

This experiment also revealed the strong effect of MRET activated water on the process of cloning of microorganisms, their division, the size of colonies and the form of their cell-like division. It was observed that one of the reasons of abnormally low growth of *E.coli* is related to the inhibition of cell division in MRET activated nutrient medium. In MRET activated medium a large number of cells after completion of growth in the process of division were not separated and the linear line-ups consisting of 2-3 sequentially paired cells were formed (cells grown in non-activated and MRET activated medium are shown on Pic 4 and Pic 5 respectively).



Pic 4: Cells of *Escherichia coli* K-12 grown in non-activated medium.



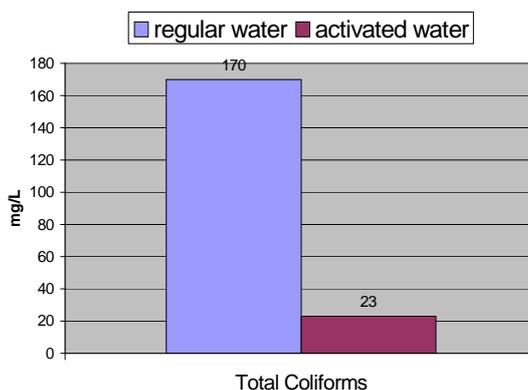
Pic 5: Cells of *Escherichia coli* K-12 grown in MRET activated medium ($t_{act}=1$ hour).

References:

Vysotskii, V.I. (2006) “*The Biophysical Model and Experimental Observation of Strong Inhibition Activity of Water Activated with the Help of MRET Process*” Program and Abstract Book, International Congress on Medical Physics and Biomedical Engineering, August 27 – September 1 of 2006, Seoul, Korea

Germicidal activity of MRET water

Testing conducted at C.A.I. Environmental Laboratory, Carlsbad, USA revealed the significant reduction of the amount of total coliforms following the process of MRET activation. In the rainwater activated for 30 minutes the amount of total coliforms decreased by 86% after the process of water activation. This test confirms the germicidal effect of the process of MRET water activation.



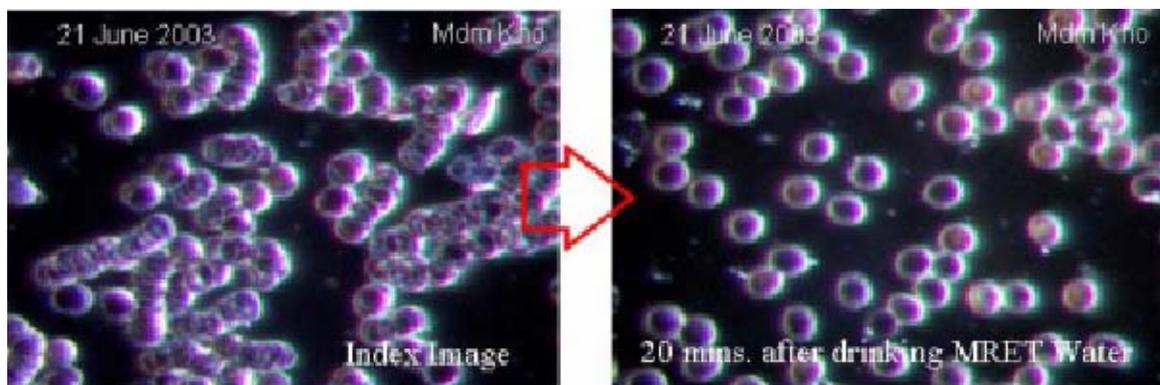
References:

Smirnov, I.V. (2002) “*Activated Water*” Explore, Vol.11, No.2: 49-53, USA

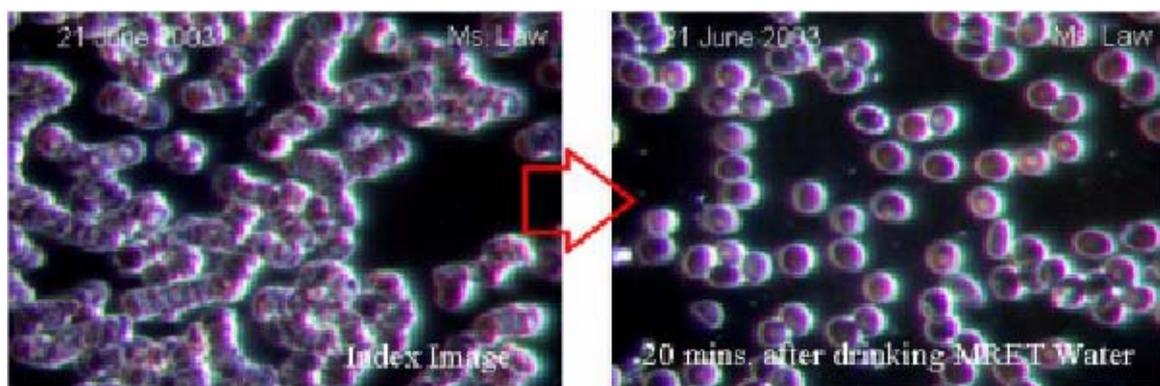
Life blood cells analysis of MRET water effect on morphology of Red Blood Cells

The life blood cells analysis was conducted at Health Manna Pte. Ltd., Singapore in compliance with the standard methodology. The tested subjects were verified not to ingest MRET activated water for the last 24 hours. Drops of blood samples were taken from the fingertip of the subject before he ingested MRET water and 20 minutes after the ingestion of a glass of MRET water. The blood samples were placed on a specimen slide in a series of layers. After the layers dried they were observed under the microscope.

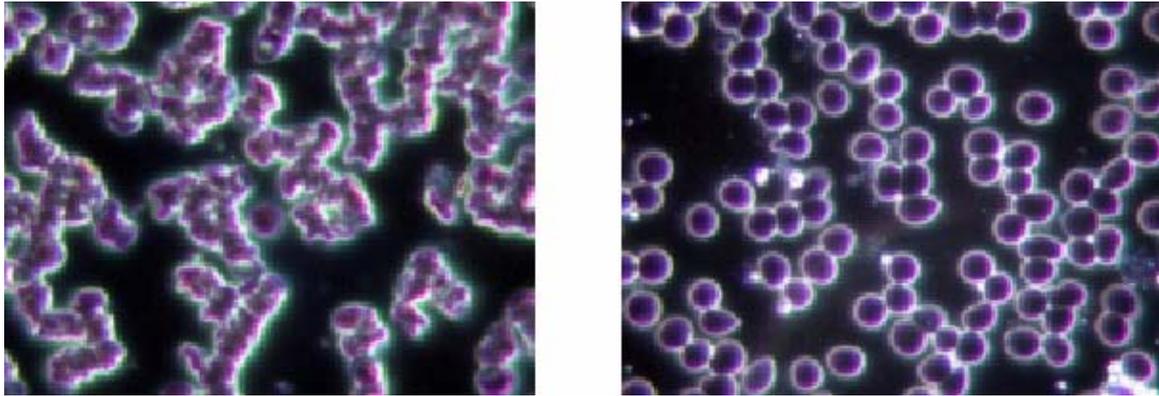
The comparison of the images with control ones indicated that the ingestion of MRET water substantially improved the morphology of Red Blood Cells. The images of blood sample of subjects before the ingestion of MRET water show the patterns of Rouleau formations (cells are stacked forming worm-like pattern) which usually correspond to the symptoms of fatigue, shortness of breath, and poor blood circulation because red blood cells cannot carry enough oxygen. The images of blood samples of subjects in 20 minutes after the ingestion of MRET water show immediate restoration of Red Blood Cells morphology.



Subject #1



Subject #2



Subject #3

Left images present blood sample before the ingestion of Activated water. Right images show blood samples in 20 minutes after the ingestion of Activated water. They show substantial improvement of blood morphology.

References:

Smirnov, I.V. (2006) *“The Physiological Effect of MRET Activated Water on Patients Suffering from AIDS”* Explore, Vol.15, No.2: 37-40, USA

MRET water effect on seed germination and growth of plants

The examinations of influence of MRET activated water on plants was conducted during 3 months period at Kiev Institute of Plants Genetics of Ukrainian Academy of Sciences under supervision of Prof. V. Vysotskii, Kiev National University. MRET activated water accelerated the process of seed germination of several plants (particularly of cabbage, pumpkin, string bean, garden radish and peas) and enhanced their growth cycle.

PLANT GROWTH TEST ON SOYA

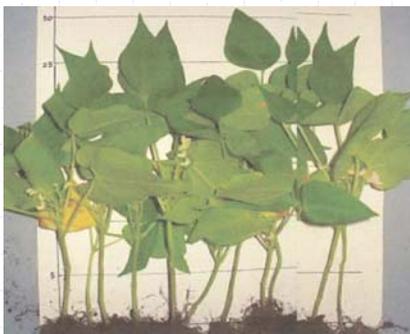
Germination in soil



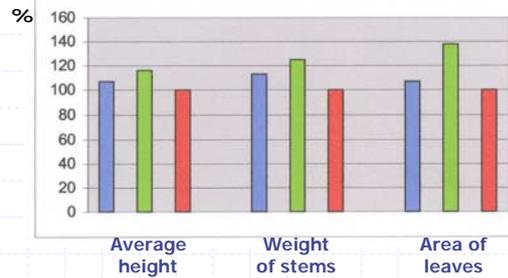
30 minutes activation



60 minutes activation



control



Red – control; Green- 30 minutes activation; Blue – 60 minutes activation

PLANT GROWTH TEST ON RADISH

Germination in soil



60 minutes of activation



30 minutes of activation



control

- ◆ Follow up observation of radish growth cycle was conducted within 25 days. Control samples were irrigated with regular water. Two other samples were irrigated with MRET (activated) water: 30 minutes of activation and 60 minutes of activation respectively. By the end of the experiment the plants irrigated with activated water (60 minutes) had increased parameters to compare with control samples: average height by 21.9%; average weight of stems by 57.1%; average area of leaves by 37.6%. MRET water accelerates growth cycle of plants.
- ◆ Within the first 3 days the germination of plant's seeds increased by 200% to compare with control samples.

Physical Properties of MRET Activated Water Related to its Biological Benefits

Viscosity of MRET activated water subject to very small tangent pressure decreases 300-500 times

The research conducted at Moscow State University, Russia on distilled water subject to tangent pressure showed that after MRET treatment the viscosity of water decreased up to 300-500 times compare to regular water in the area of very small magnitudes of tangent pressure. The anomalous viscosity of MRET water subject to very low tangent pressure confirms the high level of long-range dynamic polarized-oriented multilayer structuring of water produced with the help of MRET activation process: the high level of long-range molecular coupling (hydrogen bonding) inside the “layer” and very low level of molecular coupling between the “layers.”

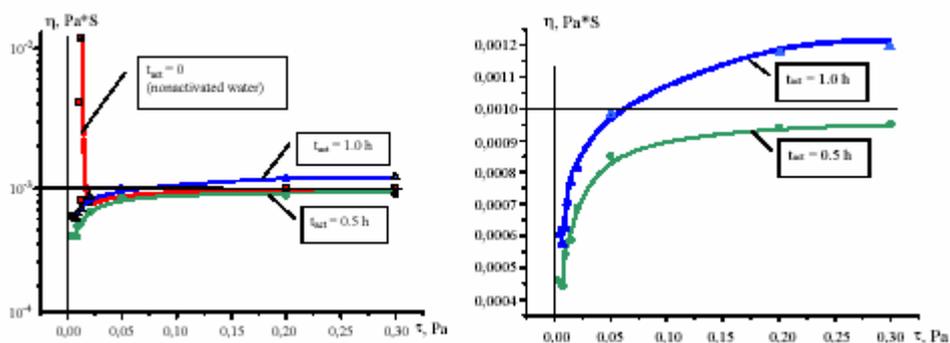


Fig 1: Viscosity of non-activated water and two fractions of activated water at 20° C in the area of very low tangent pressure.

It is well known that cellular processes in biological systems are driven by the low energy of bio-chemical reactions inside and between the cells and cellular structures. Consequently, such processes create low tangent pressures along water surfaces and the membranes between the cells. Thus, the very low tangent pressures existing in biological systems contribute to the manifestation of anomalously low viscosity of MRET water which results in improved intracellular/extracellular water exchange and can contribute to the enhancement of the cellular transduction mechanism and the proper function of cells in biological systems.

“It means that water has a “super liquidity” characteristics and possesses very low resistance when it penetrates through small porous and capillaries in the body. Based on this fact it is possible to conclude that MRET water may significantly improve the cellular membranes function as well as the function of blood circulatory system in the body.” [Smirnov 2006].

References:

- Smirnov, I.V. (2007) “The Anomalous Low Viscosity and Polarized-Oriented Multilayer Structure of MRET Activated Water” *Explore*, Vol.16, No.4: 37-39, USA
- Smirnov, I.V. and Peerayot, T. (2006) “The Physiological Effect of MRET Activated Water” *Explore*, Vol.15, No.1: 38-44, USA
- Vysotskii, V.I. (2006) “Investigation of Physical Properties of MRET Activated Water and its Successful Application for Prophylaxis and Treatment of Oncology” Program and

Modification of electro-dynamic characteristic of MRET water subject to low frequency applied EMF

The research conducted at Moscow State University, Russia on distilled water that revealed the significant reduction of values of electrical conductivity (by 77 – 90%) and dielectric permittivity (by 80 – 90%) in the range of very low frequencies of applied EMF confirms the relatively high, long-range dynamic structuring of water molecules in activated water produced with the help of MRET activation process. The long-term storage of activated water (up to 5 hours at 20°C) did not significantly affect its modified electrodynamic characteristics, thus confirming the ability of MRET activated water to keep its anomalous properties for rather long period of time (“long-term water memory” phenomenon). The significant level of reduction of dielectric permittivity and electrical conductivity kept by MRET water activated for 30 minutes after it was heated to 72°C confirms its stability to thermal effects.

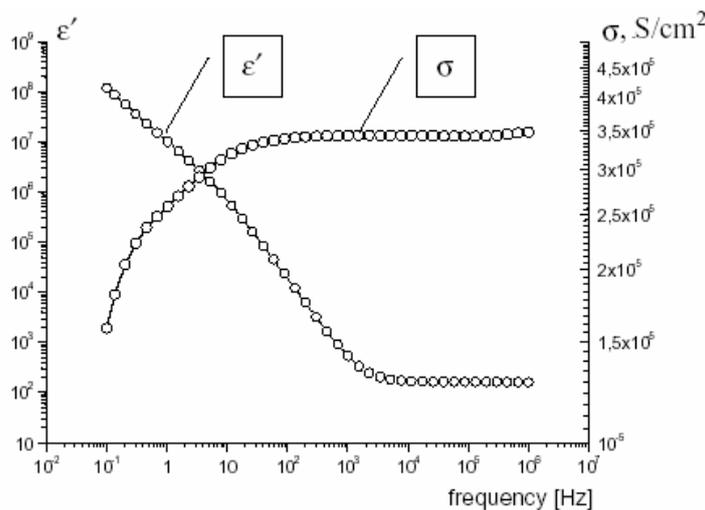


Fig 1: Electrodynamic characteristics of non-activated distilled water at temperature 20°C.

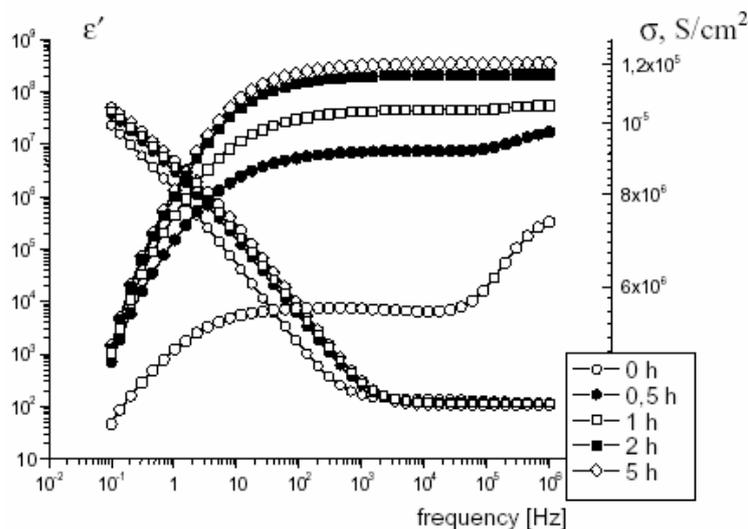


Fig 2: Electrodynamics characteristics of MRET water (30 minutes of activation) at temperature 20° C and different periods of time of storage: 0 h, 0.5 h, 1.0 h, 2.0 h, and 5.0 h respectively.

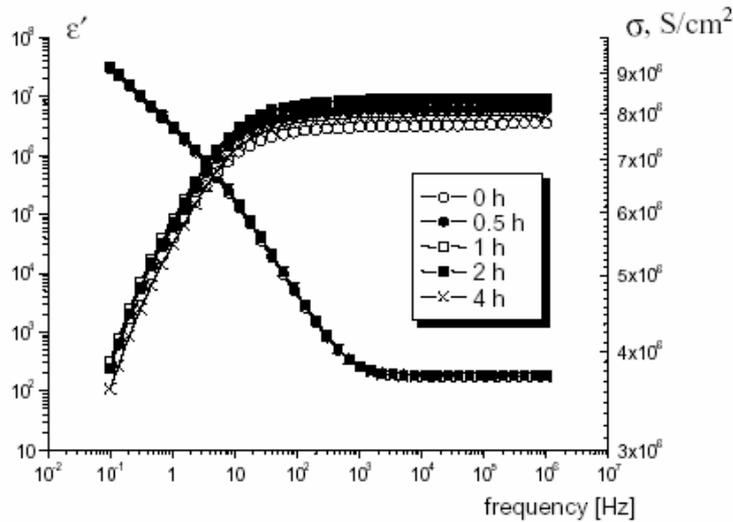


Fig 3: Electromagnetic characteristics of MRET water (60 minutes of activation) at temperature 20° C and different periods of time of storage: 0 h, 0.5 h, 1.0 h, 2.0 h, and 4.0 h respectively.

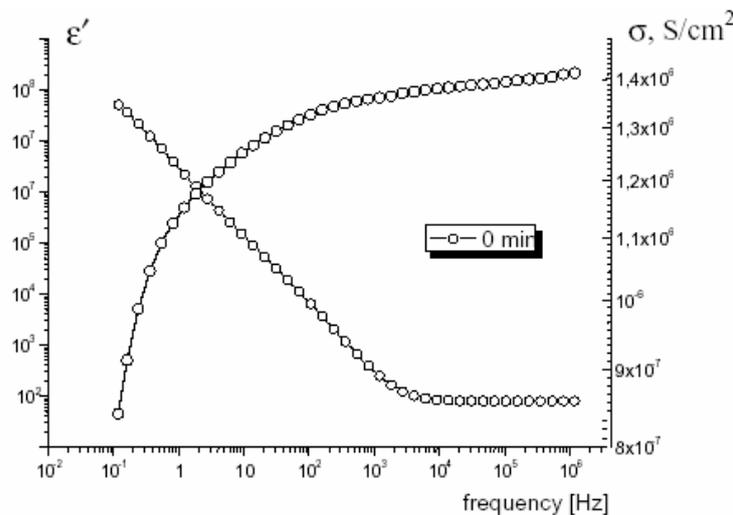


Fig 4: Electrodynamics characteristics of MRET water (30 minutes of activation) at temperature 72° C.

It is well known that cellular processes in biological systems are driven by the low energy of bio-chemical reactions inside and between the cells and cellular structures. Consequently, such processes create subtle low frequency electromagnetic field and low tangent pressures along water surfaces and the membranes between the cells. The anomalously low viscosity, dielectric permittivity and electrical conductivity of MRET water in the range of very low frequencies that exists in biological systems can contribute to the enhancement of the cellular transduction mechanism and result in improved intracellular/extracellular water exchange and the proper function of cells in biological systems.

References:

- Smirnov, I.V. and Peerayot, T. (2006) "The Physiological Effect of MRET Activated Water" Explore, Vol.15, No.1: 38-44, USA
- Vysotskii, V.I. (2006) "Investigation of Physical Properties of MRET Activated Water and its Successful Application for Prophylaxis and Treatment of Oncology" Program and

MRET activation balances the pH index reducing acidity or alkalinity of water

“The pH of the water will determine the relative health giving value of the water. Water that is ideal and has a pH potential of 7 to 7.5 showed optimum effects on maximizing the natural healing potential. Water that is alkaline is today’s elixir of life. A youthful healthy body is alkaline. A diseased body is acidic.” [Dr. Sundardas D. Annamalay, N.D., Ph.D., M.D. (2002) *“Science of Healing Waters”* Times Books International, Singapore].

The research conducted at Moscow State University, Russia revealed the oscillating and fluctuating character of pH values in distilled water depending on time, spontaneous fluctuations of geomagnetic field and environmental conditions, and other types of intracorrelation between physical and biological parameters of water. It confirmed that in MRET water activated for 30 minutes the pH index showed the tendency to balance closer to pH=7. This experiment revealed the tendency of the process of MRET activation for 30 minutes to reduce the acidity of distilled water compare to non-activated distilled water.

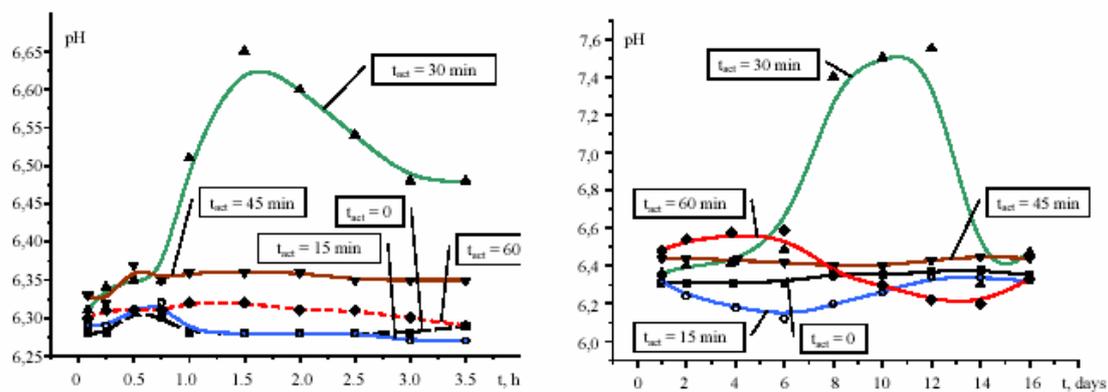


Fig 1: Hydrogen exponent pH of different fractions of activated water as a function of the time of its storage at temperature 20° C during first hours and 16 days after activation.

References:

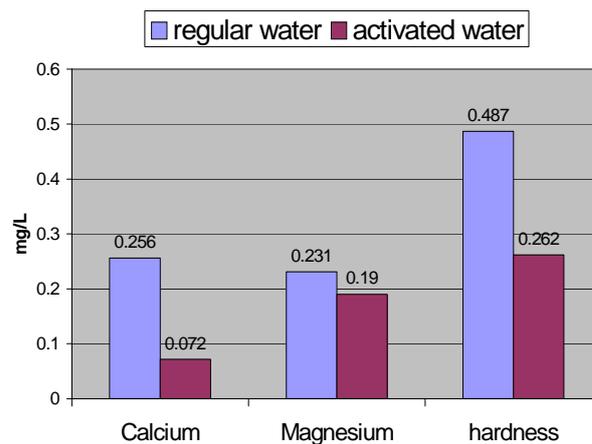
Vysotskii, V.I. (2006) *“Investigation of Physical Properties of MRET Activated Water and its Successful Application for Prophylaxis and Treatment of Oncology”* Program and Abstract Book, International Congress on Medical Physics and Biomedical Engineering, August 27 – September 1 of 2006, Seoul, Korea

Reduction of free radicals in MRET activated water (and water is softer and pleasant to drink!)

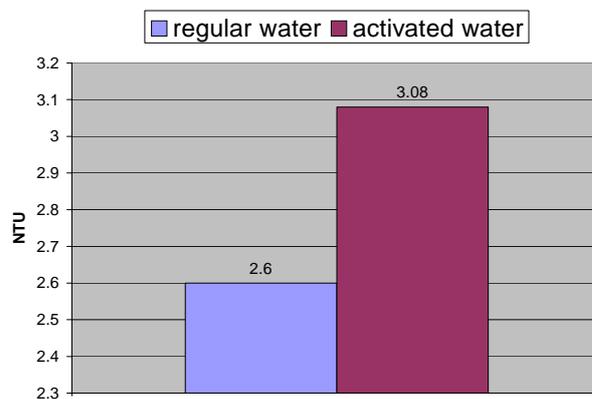
Free radicals (ions) can affect the cellular function in negative way. Consequently, the reduction of the level of free radicals in the body leads to the enhancement of the body homeostasis and metabolism. Testing conducted at C.A.I. Environmental

Laboratory, Carlsbad, USA revealed the significant reduction of free radicals following the process of MRET activation.

In the water activated for 30 minutes the amount of ions of calcium decreased by 72% and the amount of ions of magnesium decreased by 18%. As a result, the hardness of water (combined amount of ions of calcium & magnesium) decreased by 45%. These results confirm that free radicals (ions) make bonding with long-range polarized molecular structures in MRET water and have less effect on the process of proper cellular function. *The decrease of the hardness in MRET activated water contributes to its soft and smooth taste!*



The process of activation increased the turbidity of water. The increase of turbidity illustrates that free radicals bonding with long-range polarized molecular structures of MRET activated water form sediments.



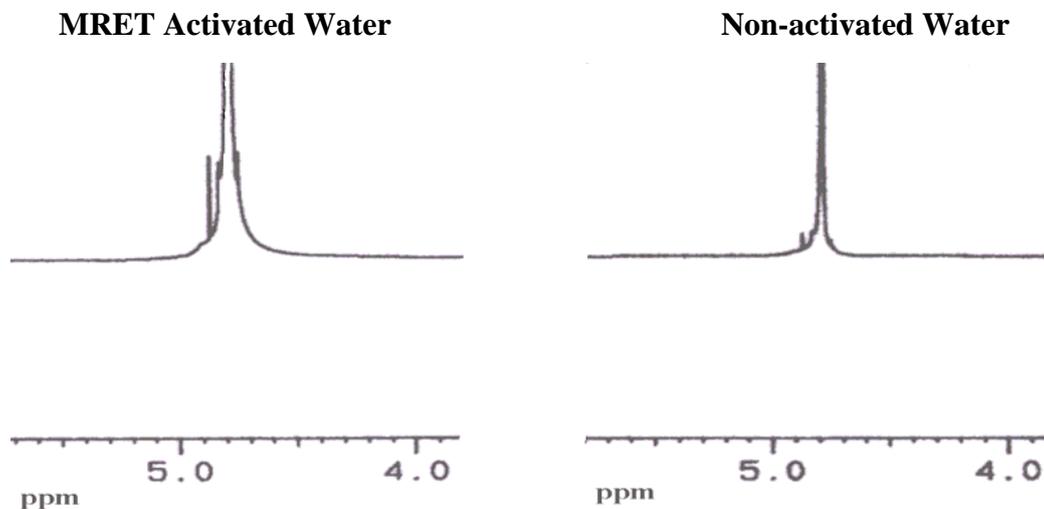
References:

Smirnov, I.V. (2002) "Activated Water" Explore, Vol.11, No.2: 49-53, USA

Nuclear Magnetic Resonance test confirmed modification in water molecular structuring after MRET activation

The test was conducted at Numega Resonance Laboratory, San Diego, USA on three samples of MRET activated water compared with a sample of non-activated water

from the same source. Experimental data revealed a consistent 2.5 times increase in the width of “proton peak” in the line of NMR absorption for the samples of MRET activated water compare to the sample of regular non-activated water. The increase of the width of “proton pick” characterizes the increase of proton dispersion and confirms the modification in molecular structuring of MRET water.



References:

Smirnov, I.V. (2002) “*Activated Water*” Explore, Vol.11, No.2: 49-53, USA

Tests Illustrating Structural Changes in Water after MRET Activation

High voltage photography

This test was conducted at Global Quantech, Inc., San Diego, USA. The High-Voltage photographs showed the enhanced Corona Discharge Effect (luminous fringes that appear around electrically conductive samples of water) in MRET water. The physical process of cold emission of electrons produces the Corona Discharge phenomenon. The emission of electrons in MRET activated water is more intensive compare to non-activated water. It means that the energy level of water molecules is higher. Due to the fact that no foreign substances were introduced to the water during the activation process, the enhanced Corona Discharge Effect could occur only as a result of structural changes in MRET activated water.



MRET Activated Water

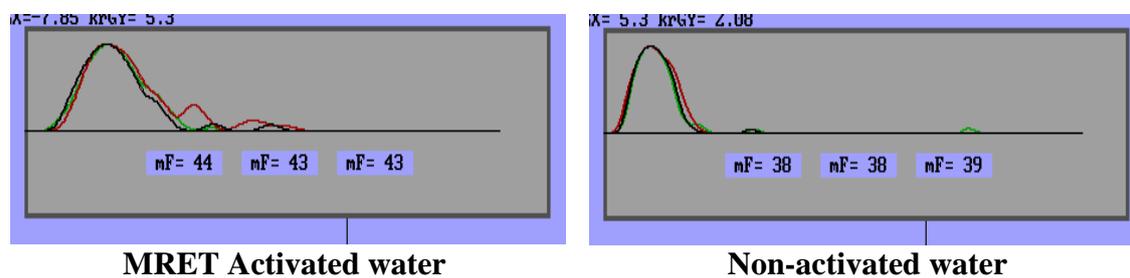
Non-activated Water

References:

Smirnov, I.V. (2002) "Activated Water" Explore, Vol.11, No.2: 49-53, USA

Laser spectroscopy

This test was conducted at Moscow State University, Russia. The Laser Spectroscopy method is based on the measurement of the density of light diffraction in the liquid media. When the laser beam penetrates the liquid media the density of light diffraction can be changed depending on the size and configuration of water molecular clusters. Laser Spectroscopy showed modification in water molecular structuring and molecular activity of water after MTRET activation.



Publications:

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