

# ENVIRONMENTAL AND HEALTH IMPROVEMENT THROUGH TECHNOLOGY APPLICATIONS - SOME STUDIES USING TRI-VORTEX TECHNOLOGY

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**Abstract:** *The US inventor of Tri-Vortex Technology - Brian Andersen - has been working with the scientific and healing properties of light, sound and geometry since 1989. His deep commitment lies in finding ways to provide the world with alternative, non-pollutant and sustainable healthcare options.*

*Brian's research has led to astounding findings and have major applications in the areas of proper cellular hydration, natural pain relief, improved health in humans and animals. These applications are not only green and eco friendly, but have benefited many thousands of people and animals.*

*The Tri-Vortex products change the molecular structure of liquids from chaotic and disorganized, to structured and flowing. There are 4 major areas of application for this technology and its products:*

- **Structuring and enhancement of Drinking Water**

*In the universe, in nature and in our bodies, systems only function normally when there is structure. For optimal hydration at cellular level in the body, it is desirable to present cells with structured water – chaotic water cannot support optimal hydration of the cells.*

- **Natural Pain Relief with no chemicals.**

*When the molecules in human cells are in a chaotic state, the person experiences fatigue, low energy, soreness and most of all pain. When the atoms and molecules in human cells are in an ordered and coherent state, the person has energy, vitality, balance and very little pain.*

- **Protecting the body from Electromagnetic Radiation.**

*The spin orientation of molecules in AC electricity used for electrical appliances, shifts from a left-hand turn to a right-hand turn - 50 times per second. The Electromagnetic Radiation pollution is hazardous to short-term and long-term human and animal health. Electrical devices connected to the Perfect Power Adaptor emit a field of coherent energy that creates harmonious movement of light particles in molecules of chemical elements.*

- **Increasing the production of enzymes in plant matter.**

*Enzymes (well known for the crucial role they play in the normal functioning of an organism) are adversely affected by the modification of the natural environment using excessive chemical substances in water, soil, air and food products. We investigated the differences in enzyme extraction from two plant samples ( $V_1$ ) and (M). An analysis of the values obtained, shows that the Plants ( $V_1$ ) that were subjected to the powerful properties of the Tri-Vortex products, yielded higher enzyme values – higher concentrations of vegetable active substances result in better plant metabolism and better active ingredients.*

**Keywords:** *environmental protection, water, Tri-Vortex Technology*

## **1. Introduction**

Brian Andersen's research with geometry and sound have lead to astounding findings and have major applications in the areas of proper cellular hydration, natural pain relief, improved vitality and performance in humans and animals. These wonderful applications are not only green and eco friendly, but have benefited many thousands of people and animals over the last 20 years.

To study the effects of Tri-Vortex on biological materials and the environment, we have used simple and effective methods. The study was developed by several researchers and the results are widely recognized as being easy to interpret, verify and reproduce.

## 2. Studies (materials and methods), results and discussions :

(A) **The first test shows changes in the conductivity of water** exposed to Tri-Vortex treated products. The tests were conducted with purified water – results were measured with an E LLIX system.

A sample of purified water was placed on a Tri-Vortex disc (90mm diam). This Tri-Vortex treated water showed an energy maximum at about 60 minutes after the start of the test (**Table 1**).

The fact that the pH hasn't been modified, indicates a water for normal use (if the water pH was reduced, it would have been an acid energized water for external use only).

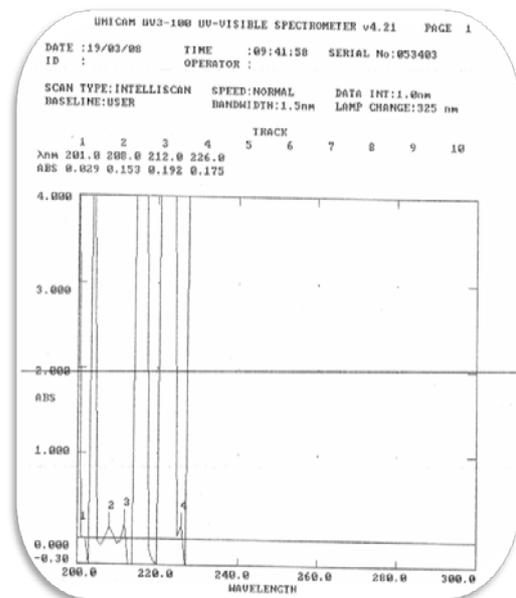
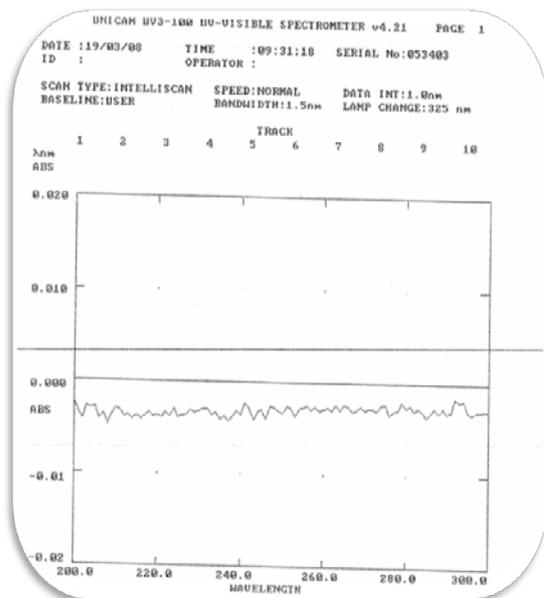
ANALYSIS	TIME TO REACT	RESULTS
Conductivity ( $\mu\text{S}/\text{cm}$ )	0 seconds (untreated water)	0,615
	5 minutes	0,943
	15 minutes	0,994
	30 minutes	0,972
	<b>60 minutes</b>	<b>1,196</b>
	120 minutes	0,955
pH	constant during all tests	6,10

**Table 1.** Tri-Vortex treated water - conductivity at different times during treatment

## (B) Absorbance spectroscopy :

Absorbance of water was measured with a spectrophotometer - spectral range between 200 and 300nm.

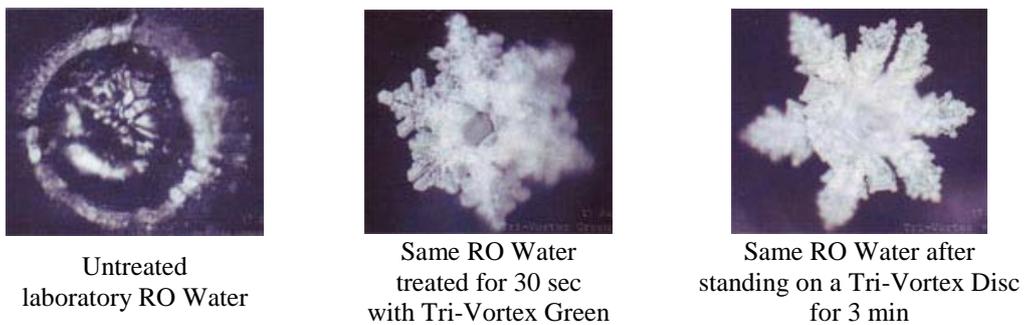
Graph on the left shows the result of normal laboratory grade water. The graph on the right shows the results of laboratory grade water that was treated with a Tri-Vortex disc for 60min



**(C) Analyzing how the Tri-Vortex Disc affects the crystallization of pure laboratory grade water - photograps by Dr Masaru Emoto of Japan.**

Observe the lack of structure in the normal laboratory water - Picture on Left - (*Figure 1*).

The pictures on the Right and in the middle, are of the same laboratory water that was treated with Tri-Vortex products for up to 3 minutes.



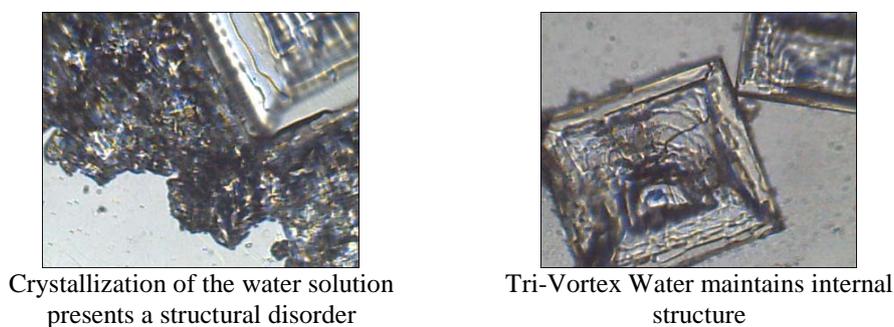
**Figure 1.** Crystallization forms of different types of water

**(D)** According to quantum theory, electrically charged water changes its internal structure of the oxygen ion orbitals. Hydrogen links, which structure a volume of water, will also change the **internal structure of crystal formation in a salt solution**. Using this hypothesis, we studied the crystallization of a quantity of 5 ml water with a 10% salt cocentration (vol/vol). Observe the change in the orientation of the arrangement of the crystals – **Figure 2**.

Distilled water was used for both studies.

As noted in Figure 2 :

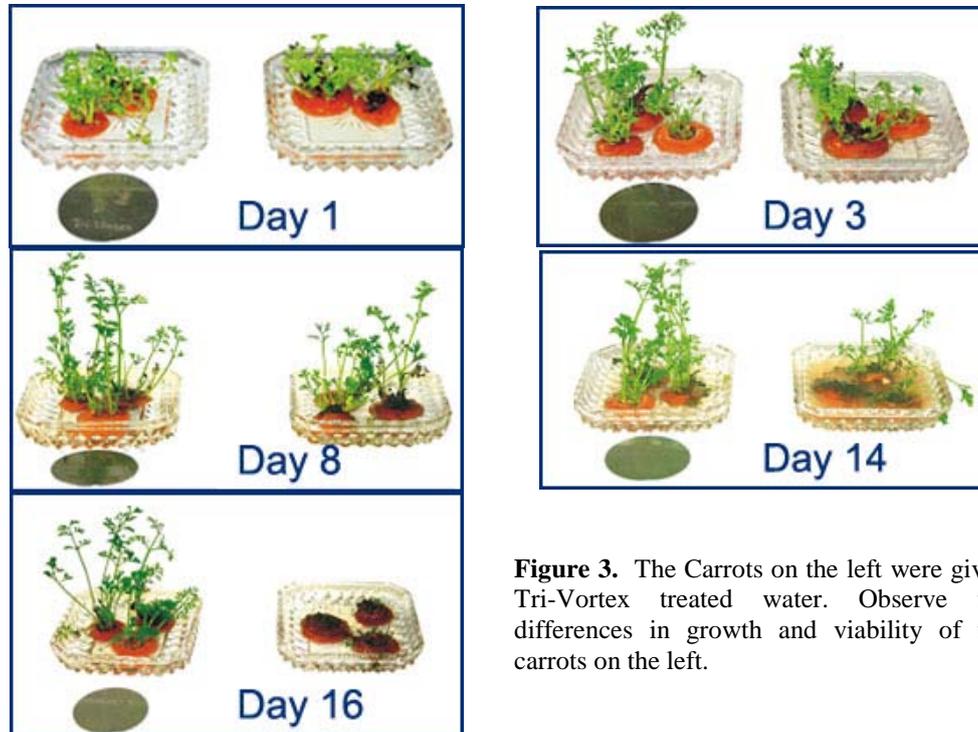
The sample (Right) used Tri-Vortex treated water to make the salt solution - the Tri-Vortex treated solution had a tendency to ordering and spatial arrangement, which the untreated distilled water (Left) did not show.



**Figure 2.** Structure of salt crystals – in 10% solution

**The study with water and salt, supported the initial hypotheses.**

(E) The following experiments were done on plants and plant growth. Based on studies prepared by the manufacturer (presented in Figure 3) the Hofigal Romania study team has done subsequent and several related studies.



**Figure 3.** The Carrots on the left were given Tri-Vortex treated water. Observe the differences in growth and viability of the carrots on the left.

#### Pictures Below – Done by Hofigal 2010

**Left :** Echinacea grown by comparing the influence of a Tri-Vortex product on growth – the plant in the back is the same age as the plant in the front that was not exposed to a Tri-Vortex product.

**Right :** The same positive effect was seen on the growth of Calendula – pot on the Left vs the Right.



**The Hofigal Romanian Study team further evaluated as follows :**

(F) The authors, wanting to offer new products full of vegetable active substances, studied a great variety of plants (and fragments of these plants) as potential sources of enzymes. Momordica charantia is an enzyme rich plant - very useful in phytotherapy. For that reason, the Momordica charantia (bitter melon) was treated and grown with a Tri-Vortex method and protocol. After a period of time and growth, we compared the values of the enzyme contents of the treated plants to those of the untreated plants. We extracted and determined enzyme values in the leaves of these plants. The following enzymes were tested for : protease, lipase and amylase. The analytical tests were done with both the classic and modern assay methods. High levels of enzymes were found in the plants studied - **(Figure 4)**.



(V<sub>1</sub>)

(V<sub>1</sub>) treated with an advanced Tri-Vortex method



(M)

(M) Normally planted - untreated

**Figure 4.** Momordica charantia -

(V<sub>1</sub>) – Plant material (Momordica charantia) grown and treated with an advanced Tri-Vortex method. Values of enzyme contents from the leaves were = 0,246 U/g amylases 0,97U/g proteases and lipases =182 U/g, analyzed by titrimetric method and 67 µg / l analyzed with RQ-Flex apparatus.

(M) - Plant material (Momordica charantia) normally grown and not using the Tri-Vortex method. Values of enzyme contents from the leaves were = 0,154 U/g amylases 0,89 U/g proteases and lipases = 150 U/g, analyzed by titrimetric method and 58 µg / l analyzed with RQ-Flex apparatus.

We noted the differences in enzyme concentrations from values obtained from the two samples (V<sub>1</sub>) and (M) .

An explanation of these differences in values : growing and the treating the plants with Tri-Vortex products resulted in much higher levels of enzyme recovery in the leaves. These increased vegetable active substances are what improves plant metabolism.

Plant	(V <sub>1</sub> )	(M)	Difference
<b>Enzyme - method</b>			
Amylases	0.246 U/g	0.154 U/g	+ 59%
Proteases	0.97 U/g	0.89 U/g	+ 9%
Lipases – titrimetric method	182 U/g	150 U/g	+ 21%
Lipases – RQ Flex apparatus	67 µg/L	58 µg/L	+ 16%

### 3. Conclusions (preliminary)

The spectrophotometer results showed an obvious modification in the treated vs untreated water - the peaks were obtained with a treatment time of approx 60 min.

Crystalline structural changes were observed in water exposed to the the Tri-Vortex Disc. Similar observations were made when observing the crystalline structure of salt dissolved in Tri-Vortex treated water.

Starting from the basic idea that metals give up electrons, it is possible to conclude that the Tri-Vortex Disc energetically charges the water (or any other liquid in contact with it). Possibly the liquid will acquire curing properties. Long term treatments or exposure to a Tri-Vortex disc should have positive effects on cell metabolism - such as:

- improving the titular absorption (intense hydration) by reducing the superficial tension of the water - bringing its value near to extra cellular liquid superficial tension;
- the neutralization of free radicals.

Based on the experimental results, we have identified many possible applications for this technology.

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