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This excellent article was found in Radio News in 1925. It was supplied to Vanguard Sciences by our friend John Waters of Denver, Colorado. You might find further information on the work of George Lakhovsky by contacting either Health Research or Borderland Sciences. If anyone has further information on this, please copy and send to the above address or upload it as a text file to the KeelyNet BBS so that others may benefit from it.

Curing Cancer with Ultra-Radio Frequencies

by **George Lakhovsky**

A new and important application of very short wave-lengths is described in this article by one of the leading French scientists. *The new application of short wave-length oscillations described in this article is one of the most important ever found, and we are pleased to present to our readers this article by Mr. George Lakhovsky, the well-known French scientist. The experiments described were carried out in collaboration with several doctors and scientists of high standing and it seems from results obtained, that the very high frequency treatments will play an important role in the future. We shall publish in a later issue another article on this new system, together with the effects of ultra radio frequencies in the treatment of other diseases in human beings.*

Since November, 1923, I have published in various technical and radio publications and several papers my theory that the instinct or special feeling -- which permits birds to direct themselves in space -- is only the results of the emission and reception of rays by living beings.

While developing this theory, I explained how thoroughly I was convinced that Science will discover someday not only the nature of microbes, but also the radiation which they produce and a method of killing disease bacilli within the human body by means of the proper radiations.

The researches I have made by means of special apparatus have shown such results that I believe my theory to be correct. This theory is that Life is born from radiations, kept going by radiation and suppressed by any accident producing the destruction of the oscillatory equilibrium -- especially by the radiations of certain microbes which suppress those of the weaker cells.

Before going any further in our reasoning, it is necessary -- in order to present the facts to the uninitiated reader -- to imagine what oscillations really are. The motion of a pendulum will be used for this explanation.

When a pendulum is displaced from the position of equilibrium, it moves back-and-forth producing what are known as synchronous oscillations until the energy stored is entirely exhausted. By means of a motor, a spring, or an electromagnet, it is possible to keep the motion of the pendulum of constant amplitude, producing undamped oscillations.

If on the contrary, the source of power is removed, the oscillations die down and it is necessary not only to reapply the power sustaining the oscillations but also to furnish additional energy to start the pendulum in motion. This oscillation of a pendulum reproduces exactly what happens in the cells of a living being.

Body Compositon

Our organs are composed of cells formed of protoplasm containing various mineral matters and acids such as iron chloride, phosphorous, etc. It is by the combination of these elements that the cells detect outside waves and vibrate continuously at a very high frequency -- probably higher than the period of X-rays or over all other vibrations known and measured today.

The amplitude of cell oscillations must reach a certain value in order that the organism be strong enough to repulse the destructive vibrations from certain microbes. The astrophysicians are actually carrying out experiments of great interest on the existence of vibrations which have been called "penetration rays" and of which the frequency is higher than that of X-rays and of the alpha, beta, and gamma rays of Radium. Such rays (according to the theory) are produced by the Earth itself, and some others come from outside space [*reflected cosmic radiations are termed "noxious rays" -- Vanguard*].

Accurate measurements have proven the correctness of this theory. Therefore, it is quite permissible to believe that these penetration rays -- or at least some of them -- produce the vibratory motion of living cells and consequently their life.

For instance, let us suppose a cell vibrates at a certain frequency and a microbe vibrates at a different frequency. The microbe begins to fight the cell through radiation and sickness is started. If the cell cannot repel the stronger vibrations and if the amplitude of its own vibration is forced to decrease, the microbe gains in amplitude and its vibrations begin to decrease and stop those of the cells, bringing on dangerous sickness or death.

If, on the contrary, the living cell is started vibrating with the proper amplitude by inside or outside causes, the oscillatory attack is repulsed. Such is my theory.

The problem is somewhat similar to the situation in which a rescuer finds himself when, coming to help a friend in a dangerous situation, finds himself fighting hand-to-hand against strong aggressors. The rescuer does not dare to fire his gun, fearing to harm his friend mixed up with the aggressors in the melee.

Similarly, microbes and healthy cells are all exposed to electric or radioactive action which could be used to destroy the unwanted rays. And it is difficult to suppress them without harming or killing at the same time the cells which are to be treated. In fact, since Pasteur, scientists have been constantly searching for a means of destroying microbes.

The great difficulty with all methods found was that in destroying, the bacillae cell was attacked too. The experience gained in cancer and tuberculosis treated with Radium, X-rays, or ultraviolet rays shows how difficult is the world of the investigators.

A New Method

The remedy -- in my opinion -- is not to kill the microbes in contact with the healthy cells but to reinforce the oscillations of the cell either directly by reinforcing the radio activity of the blood or in producing on the cells a direct action by means of the proper rays.

During January 1924, I began to build -- according to this theory and with the purpose of therapeutic applications -- an apparatus which I have called the **Radio Cellulo-Oscillator** with the firm belief that the cells vibrating at extremely short wavelengths would find their own in the Hertzian waves, which have the properties of producing extremely short harmonics.

The cell with very weak vibrations -- when placed in the field of multiple radiations -- finds its own frequency and starts again to oscillate normally through the phenomenon of resonance. This type of vibration are produced by the radiowaves which I propose to use is harmless, unlike those of X-rays and Radium. Their application, therefore, does not present any danger for the operator.

I exposed in front of my apparatus during long periods a certain number of microbes in culture, which developed themselves normally. I myself have never felt the effect of these ultra radio frequencies, although I remained for a great many days near the apparatus during the treatment applied to the living cells.

It is only when 2 living beings such as a cell and a microbe are in contact that the rays produced by the Radio Cellulo-Oscillator have any direct effect upon cellular structure.

The experiments which I carried out at the Salpetriere Hospital in Paris (in the service and with the collaboration of Prof. Gosset) were made with plants inoculated with cancer. The results were described in a paper presented on July 26 last year before the Biological Society. The text of this paper follows.

One knows that it is possible to produce by inoculation of *Bacterium tumefaciens* in plants tumors similar to those of cancer in animals.

One of us obtained experimentally by this method a great number of tumors. These had various degrees of development. Some of them dry up partially but do not die entirely until the entire plant or at least the limb bearing the tumor dies.

Even removed by surgical methods, these tumors grew again on the sick limb.

The Radio Cellulo-Oscillator

We propose to describe in this paper the action of electromagnetic waves of very high frequency obtained by means of the Radio Cellulo-Oscillator of George Lakhovsky.

This apparatus produces wavelengths of the order of 2 meters and less, corresponding to 150 million cycles-per-second.

A first plant was submitted to the effect of the radiation one month after being inoculated with cancer. At this time, small tumors of the size of a cherry stone were visible upon it. This plant was submitted to the rays twice for 3 hours each time.

During the following days, the tumors continued to grow rapidly in the same ways as those on plants, which had not been submitted to the effect of radiations. However, 16 days after the first treatment, the tumors began to shrink and dry up. A few days later the tumors were entirely dried up and could be very easily detached from the limb of the plant by merely touching them.

The drying action of the radio-frequency radiations is selective and affects only the sick part of the plant. Even the inside sick tissues were destroyed, although they were next to healthy cells in the center of the limb, showing that the radiations had not affected the healthy parts.

the Length of Treatment

"Another plant was treated in the same way except that it was exposed 11 times (for 3 hours each time) to the radiations of the oscillator.

"16 days after the first exposure, the tumors -- which were rather large as shown in one of the photographs -- began to shrink and dry up and were easily detached from the limb exactly as in the first case.

Again in this case, the healthy parts of the plant were not affected in the least.

A third plant exposed to the radiations for 9 hours. That is, 3 treatments of 3 hours each was cured in the same manner as the 2 others.

16 plants also inoculated with cancer were left without treatment. They have tumors in full activity, several of which are very large.

"These experiments show conclusively that plants inoculated with cancer and be treated and cured by means of the ultra radio frequency vibrations, whereas surgical treatment fails.

"In conclusion, I wish to call the attention of the reader to the fact that I have obtained very conclusive results not only with a wavelength of 2 meters but with longer and shorter wavelengths. The main thing is to produce the greatest number of harmonics possible."

Such are the results of my researches with plants. At the present time, similar experiments are being carried out with animals and it seems that the effect on cancerous animals is the same as on cancerous plants.

I am highly pleased to present my theory and the results of my work in a scientific review of the United States -- this great country -- which has always been in the lead in the fight against this terrible sickness cancer and whose sympathy and help I would greatly appreciate.

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