

Borderline Aspects of Biomedicine

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ABSTRACT

In addition to the borderline Phenomenological problems of Medical and Biological Description, it is necessary to carefully analyze the borderline Characteristic States between LIVING and NON-LIVING Matter.

Keywords: Precision Experiments; Individuality; Virus; Living Cell

Mini Review

I, as a professional analytical physicist who began to study Science, however, from the optional school of the mathematician Pontryagin (60 years ago), am interested, first of all, in the borderline aspects of Biomedicine with the Fundamental Physical Laws, which I have been actively combing in recent years. But these latest works of mine did not begin out of nowhere, but as the result of a piecewise continuous research method, which I have been using for half a century at the Academy of Sciences. The essence of this method is simple - in the search for technical solutions to current Problems, experiments are carried out on the basis of known Models that can provide answers that existing Theories cannot provide answers to. And as a result of PRECISION experiments, you come to the need for clarification of standard Theories, and even for redefining the Fundamental Concepts of Physics. This is how I have previously been able to create devices and technologies that can radically improve the performance characteristics of devices and materials. I created (with different people-organizations) ultra-low-noise Electronics elements, ultra-sensitive Radiation Detectors, ultra-selective Radiation Sources, precision broadband polarizers and a number of unique materials, for which I received the title "Inventor of the USSR". In recent years, I have concentrated on Corrections in the FOUNDATIONS of Physics. These latest works of mine have already received about one hundred thousand views in scientific journals, and on their basis I prepared the

book "FOUNDATIONS OF QUANTIZATION" for publication. Next up, after completing the Redefinition of the Magnetic Field, is the book "FOUNDATIONS OF RELATIVITY".

The key word for the experiments I conduct is PRECISION. And this level of my experiments far exceeds what I saw in such advanced medical centers as the Bekhterev Brain Institute, where I was invited for a consultation, and at the Almazov Cardiology Center, where I ended up as a patient. But the laxity of experimental medical measurements may not be the main drawback of Medical Research. The no longer young and elderly man himself, having fallen into the clutches of doctors after an injury, saw not only a lot of technical errors (which even my worst graduate students would not have made), but also a METHODOLOGICAL Error in the artificial blocking of the information channel of communication between the doctor and the INDIVIDUAL, who is being turned into faceless, average patient [1].

Thank God at the Almazov Center there were adequate young doctors and showing my heart on the screen, they consulted with me about inserting a manipulator into it and helped me to rehabilitate, and did not harm me like the previous doctor who asked me: "How do I feel?" and when I answered, then shouted: "Who is treating whom—me you or you me?!" To which I replied: "I am used to making precision measurements and I simply described to you my precise sensations and their UNDERSTANDING!" But the point, of course, is not in these demos. In addition to the above-mentioned General Medical

Issue, the pandemic has raised a number of Current Medical Issues [2], the solution of which is only possible with the involvement of Sciences related to Medicine [3-7]. Specifically, Biomedicine, combining two independent disciplines, is borderline not only phenologically, but also in terms of considering LIFE as a borderline state [8]. Indeed, the processes she studies relate either to the emergence (birth) of life, or to its stagnation (dying). These processes and their speed of development were predetermined by Nature itself. And a person, with the help of Medicine, either corrects failures at these stages, or tries to slightly modify them. At the inception stage, there are known cases of acceleration of processes due to external conditions.

Thus, on Sakhalin at the initial stage, the processes of the emergence of life proceed faster than on the mainland, both in plants and in animals and people. There, it is not uncommon, but the norm, not only the rapid growth of plants, but also the birth of seven-month-old children. Apparently the "clean" atmosphere of the ocean also affects the acceleration of development. It also influences the slowing down of stagnation processes in the body in old age, which is clearly manifested, other things being equal, in higher life expectancy in Japan. A "clean" atmosphere apparently varies; in the mountains it promotes life expectancy, but there are no confirmed statistics on accelerating fetal development. Thus, we can identify a common parameter, the change of which divides the area of origin and stagnation of the organism - this is the rate of cell division. If we move from the integral characteristics of the stages of life to consideration of the speed of chemical processes, then, I think, we will not see such a critical change in it even in the young Schwarzenegger, nor his old one.

But in his youth, under loads, his muscle mass, after micro-tears, only increased, and in old age, not only does it not increase, but shrinks and even tears, not having time to heal between workouts. Not everyone is given the opportunity to become champions, but chemistry, the speed of chemical reactions, from the comparison of the processes of emergence-stagnation and restoration of muscle mass, rather influences the extreme achievements of the human body as a background. Like a certain limiting "speed of sound", while its achievement can be achieved by "effort of will", as, for example, in sports, and in science, and in art. So, achieving this "speed of sound" determines the speed of information transmission, which is determined not only and not so much by the speed of transmission of nerve impulses (which also acts as a kind of background parameter), but by the HARMONY of the Dynamic Element of LIFE [9]. Even before the Nobel laureates in physics showed us a quiet adagio "performed" by an individual living cell - Harmonic Sounds - NOTES transforming into other NOTES without violating Harmony, Ali Engalychev and I used vibration during a solid-state phase transition - growing disproportionate crystals from a highly symmetrical solid crystal as it passes through a temperature gradient. Thus, it was shown that the rate of phase transformation increased by orders of magnitude even in the solid state.

And since living tissue is in no way solid, phase transformations in it are guaranteed to accelerate even from simple vibration. Ali and I also did a playful experiment with crystals, playing symphonic music in them, but we didn't have enough time to obtain reliable results at temperatures above a thousand degrees. Whereas at the temperature of a living cell, its reaction to Harmonic Sounds is not particularly difficult to study. Many, as I have already described, magnificent Ideas are buried under the "cultural layer" [10]. But the pandemic hit us over the head and some of them surfaced. So Lev Zilbert, back in the middle of the last century, developed the concept of the viral nature of cancer. So, almost 100 years have passed and only now they remembered Belozersky's Idea of the emergence of LIFE - "It seems that RNA, associated with the most general manifestations of life, was formed at an earlier stage in the development of life, while the emergence of DNA is associated with the formation of narrower and phylogenetically later properties of organisms." (A. N. Belozersky, Moscow International Symposium "The Origin of Life on Earth", 1957). These luminaries in their reasoning did not proceed from consequences, as is customary (say, the proliferation of cancer cells), but from causes. The fact is that the growth of a LIVING Cell is not just a chemical reaction or a chemical process. Purely chemical growth would last indefinitely. The growth of a LIVING cell comes from already prepared Fragments, from non-living fragments of LIFE, but not living ones.

Those, in fact, from the same level of fragments as viruses. And pathogenic viruses replace the fragments necessary for a LIVING Cell to reproduce. And certain viruses are embedded in such a way that the defective Cell retains the ability to reproduce. And these considerations can be supplemented, at the modern level, by the fact that the conclusions about studies of canonized DNA and RNA are in many ways a decoding of "texts" on burnt paper. Whereas it is more informative and more gentle to use IR spectroscopy, which directly provides information not only about the structure, but also about the DYNAMICS, about the Music of LIFE of a LIVING CELL, the NOTES of which do not include the pathogenic virus fragment. Moreover, even at the dawn of the last century, for ELEMENTARY reasons, in principle, an experiment on the Characteristic Frequencies of Viruses was correctly carried out (Table 1). If we discard the semi-mystical theory-interpretation of the Characteristic Frequencies of R. Rife (these experiments can be quite correctly described by concentration models), and take into account that the frequencies he used are modulation frequencies of the carrier frequency of 330 MHz, then we can assume that he "felt" low-level Harmony viruses (not yet the Music of LIFE of a Living Cell, but Harmonic vibrations that do not coincide in frequency with the NOTES OF LIFE). The fact that official Medical Science tried to discredit Ralph's experiments reflects only its then tendentious attitude towards technical innovations. As I already mentioned, I, as a high-level technician, found a lot of errors in the most advanced modern medical experiments. And Ralph's measuring technique needs to improve. But the IDEA itself of using simple Harmonic Oscillations to influence fragments of LIFE - viruses, deserves close consideration.

Table 1: Typical Rife antiviral frequencies.

Higher Low Audio Frequencies Incorrectly Believed To Be Dr. Rife's True Frequencies. Must Be Used With 3.30 MHz To Work.			
B or E COli ROD	8,020 Hz	Syphilis or Treponema	6,600 Hz
B or E Coli Virus	17,220 Hz	Tetanus	1,200 Hz
BX Virus Carcinoma	21,275 Hz	Tuberculosis Rod	8,300 H2
BY Sarcoma	20,080 Hz	Tuberculosis Virus	16.000 Hz
pneumonia or Spinal Meningitis	7,660 Hz	Typhoid Rod	6,900 Hz
<i>Staphylococcus</i>	7.270 Hz	Typhoid Virus	18.620 Hz
<i>Streptococcus</i>	8.450 HZ	Worms	2.400 Hz
<i>Streptothrix</i>	7,870		

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