ON HIDDEN SECRETS OF HUMAN BODY

Abstract. Here, new ideas are presented regarding the biophysical arrangement of the human body and other living beings. For their argumentation, an extraordinary comprehensive approach was applied, based on the philosophical concept of the high perfection of living organisms and covering also physical logic and principles, as well as well-known everyday truths. Ultimately, the topic concerns human health, moral principles and worldview.

Keywords: philosophy, harmony, physics, biofield, magnetism, religion.

Introduction. We live in the era of the triumph of physical science, and today what was previously considered the subject of fairy tales is being introduced into everyday life. One gets the impression that physics has exhausted its fundamental secrets. Meanwhile, there remains a deep epistemological gap between the natural science and religious worldview, and the fact that believers do not give up their experience of belief leaves an intrigue.

It should be admitted that the absence of reasons for such a confrontation from the natural-science side is insufficiently reasoned. This refers to the existence of a vast unexplored space in the field of biological sciences, at least with physical applications, i.e. in biophysics. For, despite the modern advances and possibilities of biophysical research, the subjects of research – living organisms – keep many "supernatural" secrets, which are still difficult to study by existing biophysical methods.

The starting point of the topic being developed is a fundamental question: is the human (and animal) organism undergoing evolution today? - The international
experience of medicine and pharmacology does not give a positive answer to this question: the biochemical and physiological characteristics of healthy people, for example, cardiograms, body temperature, physical capabilities, body reactions to any stimuli, do not have obvious differences. There are only partial deviations from certain norms, which can be entirely explained by age, everyday and only occasionally - hereditary factors. It follows from this that the human body is the limit of perfection, whether it is the result of Creation, and it simply has "nowhere" to develop to, if it is considered the limit of evolution. In any case, the answer is unequivocal.

**Mission.** What follows from the concept of the ultimate perfection of living organisms can help to find some answers to the indicated questions. Speaking specifically, this is the identification of physical, or rather, biophysical factors, with which, first of all, the state of stability of the organism of living beings and humans is associated.

**On the methodology.** The very fact of the ultimate perfection of living organisms and its invariable and adequate attribute - the stability of their state - makes it possible to develop a specific methodology for its detailed consideration.

The protective forces that ensure stability in living organisms go beyond the usual stabilization of their state. For, while tools and machine parts tend to wear out and break down, living organisms are able to train, strengthen, and adapt. This is another evidence of their extreme perfection. Exceptions are systematic and significant violations of the norms of nutrition, activity, mental state, as well as congenital factors.

“Harmony” is a synonym for perfection: nothing missing, nothing superfluous, everything with its normal functions, everything is ideally interconnected. Within the framework of this topic, we will formulate this differently: for the state of ultimate harmony inherent in living organisms, there are no superfluous physical, chemical, physiological and other properties of tissues and their particles, and there are also no inconsistencies that violate the stability of this state.

The combination of such a philosophical concept with physical logic, added by everyday and even biblical ideas, is an extraordinary approach that is supposed to
be used to confirm and consider little-studied or undetected biophysical effects.

**Results and discussion.**

**About piezoelectric effects in tissues.** Any area of tissue of a living organism that modifies its own shape in the slightest degree is activated, and metabolic processes are accelerated, guaranteeing the stability of its composition and functions. There are considerations, so far without evidence, that such activation is manifested, in particular, in the piezoelectric effect - in the separation of charges. This effect takes place in non-metallic crystals [1], for example, in quartz plates used in lighters. This effect should also work in organic tissues. In particular, it should work as a feedback, straightening vertically plants, more or less bent under its own weight; - it is difficult to find other reasonable explanations for this. Such an effect cannot but work in strengthening bone tissue in the process of training special forces. So, according to the principle of ultimate harmony, this effect is permissible to act in living tissue, as long as it contributes to the stability and even training of the organism. And when it is screened by an organic liquid, it somehow or other activates the both tissue and liquid.

**On the nature of biofield.** In living tissues, in all their parts, particles down to the molecular scale, there are thermal vibrations, as in any bodies [2]. They form their own stable frequency spectra (as in guitar strings).

These vibrations lead to deformations in tissues and thus, due to the dynamics of charge separation, generate an electromagnetic field of appropriate frequencies. - This is an intermediate point in the proof of the phenomenon of piezoelectricity in tissues and the nature of the biofield with its functions.

According to the principle of ultimate harmony, thermal vibrations and the
biofield of organisms form a close physical relationship, their own energetics, which undoubtedly contributes to the stability of organisms, the stability of the composition of tissues and functions of organs, metabolism, hormone balance and immune processes. The biofield produces the feedback effect on thermal vibrations – promoting deformations and microdeformations in tissues (through electrostriction [3]).

![Diagram of biofield and thermal vibrations](image)

In an elementary sense, these are deformations directly by the electric and even magnetic fields as components of the electromagnetic field.

**About biorhythms.** According to the principle of ultimate harmony, the frequencies of the biofield and the rhythms (frequencies) of brain activity must be coordinated, in particular, coincide. The beta-rhythm of active wakefulness (of the brain and body; 14 ... 35 Hz) plays a significant role in life. But the main and lowest in the frequency spectrum is the delta-rhythm of relaxation (0.5 ... 4 Hz) accompanied by recovery processes [4]. The lowest frequency (for example, during sleep) produces the most efficient tissue restoration.

A rational combination of delta and beta rhythm (rest and work; - analogy with the energies of Yin and Yang) is important for a healthy state of human.

The main rhythms have a connection (it is as proportional) with high frequency rhythms, which are responsible for digestive, hormonal and immune processes, mental perception (intuition). The more significant and more frequent the deviations from the basic rhythms, for example, with the manifestation of rage and aggression, the greater the consumption of vital energy of the body, dysfunctions of metabolism, general recovery and protection, thinking. Oddly enough, music can play a certain role in the normalization of rhythms. It literally plays them like strings, raising their alignment, or simply the mood of a person, affecting his mental and physical state.
On the functions of iron in the blood. According to the principle of ultimate harmony, the exclusive magnetic property of iron, including that contained in the blood of living beings, should play an equally exceptional role in their organisms. Indeed, there is a full reason to reduce this role to a colossal increase in the biofield to the level of effective interaction with thermal vibrations [5]. In particular, this is one of the ways of iron in promoting a wide range of metabolic-reduction processes in cells.

According to the analogy with household appliances, "hematopoietic" iron is involved in magnetic recording in the process of blood circulation: the stronger the blood circulation, the louder this recording. In this way, literally in the human body, and according to biblical concepts - in his blood, - most vividly and in appropriate rhythms, the systematic features of a person's sensory state and life are recorded.

They are emotions, sympathies and priorities, inclinations, skills, talents, habits, addictions, behaviour pattern, character traits [5]. In this way, the personality is formed, - the adaptation of a person and other living beings to the conditions of existence is carried out.

The complex of such a record is associated with the soul of the individual and, to a certain extent, undoubtedly determines the basic state of the psyche and physical
health of a person. Recording and re-recording stops with the final cessation of blood circulation....

**About contacts.** Biofields of living beings and humans are not limited to the limits of the body, but, thanks to the strong magnetic properties of iron, spread beyond these limits in the form of an aura and interact with the auras of loved ones. Within the confines of one apartment, a single family, their systematic interaction - in love and harmony - leads to their consistency and even to a certain similarity. This has a beneficial effect on the inheritance of biofields - on the whole complex of practical skills and the health of children, even from foetus development.

From an everyday standpoint, love and harmony lead not only to the saving of strength and energy, but even to their increase. A physical explanation suggests itself that in this case the coordinated biofields, or rather the joint images recorded against their background, literally add up, coinciding in frequencies, in "barcodes", in timing. Only the mutual coincidence of frequencies and timing guarantee collective harmony. This is a kind of resonance that enhances the effect and gives an increase in energy [5]... For, from physical principles, when the forces of the fields are added, their total energy increases significantly, since it is determined by the square of this sum. The effect of such ordering with an increase in energy is obviously of a magnetic nature, as it manifests itself, in particular, in the interaction of ordinary magnets. A far example of such an ordering (probably also on a magnetic basis) is the compression of a laser ray into the narrow beam, because there is only a single frequency in its spectrum.

Consent, mutual affection, love, and the adequate behaviour of loved ones (for example, mother and child) have, thus, a certain biophysical nature and energetics of motives. According to this principle, combat music and song - and, especially, drumbeat - synchronize the biorhythms of the fighters, in other words, they raise their morale, the ability to crush up a strong enemy due to a sudden increase in energy. ...In general, there are practically no everyday arguments against the biophysics of such contacts...

Any disputes and minor conflicts can disrupt the general coherence of biorhythms - and even individual rhythms with their energetics.
Conclusions. An integrated approach to the disclosure of biophysical effects in the organisms of living beings and humans has been developed. This approach is based on the philosophical concept of the ultimate perfection of living organisms (harmony) and is used in the analysis of certain physical properties of their tissues and atoms as an attribute of such perfection. This approach also includes arguments from everyday point of view.

The physical essence of biofield in organisms is revealed, expressed in its interaction with thermal vibrations in tissues, which stabilizes the composition and functions of organs, protective and restorative processes in tissues.

Consideration is expressed about correlation (and even coincidence) between biorhythms of tissues and the brain, as well as about correlation between the biorhythms themselves.

The role of iron contained in the blood of living beings and humans in the effect of magnetic enhancement of the biofield, in the strength of the interaction of auras, in the magnetic "recording" (and inheritance) of the personality specialities of individuals is noted.

An effect of energy increment in human organisms upon contact of mutually similar biofields is noted and physically explained, which in the everyday aspect is associated with the effect of friendship, love and harmony (in relationships and actions). Elementary examples from life are given.

The concept of biofield with the biophysical effects considered here does not contradict everyday and biblical concepts, and this can be a conciliatory argument at the circumstance of existed contradictions in worldviews.

References:
1. "piezoelectric". Online Etymology Dictionary.