

Possibilities of electropuncture testing of biological products  
to study their effect on aging processes

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One of the most dangerous pathologies affecting humans is oncology. It is already, in fact, recognized by many as a mechanism for self-destruction of an aging organism. Almost 7 million people in the world die every year from a terrible disease, and this number is growing every year. According to the WHO, in the next 20 years this number will increase to 25 million. It is not surprising that the victory over cancer has become a dream of mankind. At the same time, special attention is paid to biological products from aquatic organisms - aquatic organisms. Bioactive substances with antitumor activity are already known. But first, let's look at the role of a precondition for oncology - the role of stress.

It is known that stress can provoke almost any disease. Therefore, it is important to know what stress is and how to prevent it.

For primitive man, the main stress factors were hunger, thirst, cold, heat, wounds, and a fight with wild animals. All of these factors required physical activity. Therefore, the body's response to stress consisted in the rapid mobilization of energy reserves, which allowed a person to survive. However, the stresses affecting the modern person are usually such that they cannot be responded to directly through physical activity. The main problem of modern man is that the type of stress response has moved from the physical to the mental. Our body reacts, like the body of an ancient man, mobilizing energy. As a result, the relationship between physical and mental activity is disturbed, and, therefore, coronary heart disease, hypertension, diabetes, peptic ulcer of the stomach and duodenum, etc. Finally, prolonged stress dramatically shortens life expectancy, causing early and rapid aging of the body.

What is aging? There are more than 200 alternative theories of aging, which partly contradict each other and partly complement each other. Close to our understanding of aging is the definition given in 2003 by A.M. Olovyanov. This is an age-dependent decrease in the body's resistance and resistance to disturbing environmental influences, i.e. aging is a special form of disease. At the same time, many scientists admit that a person may have a genetically specified aging program, similar to that found in some animals. If it really exists, you can try to find the genes and their products that match it, determine the order of their work, and then act on the weak links to stop the main mechanisms of aging.

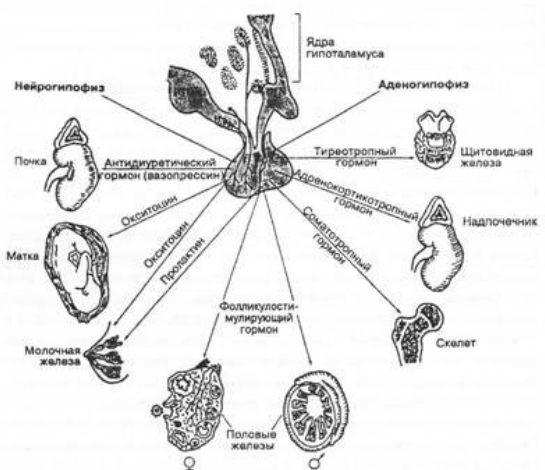
There are a number of animals showing little or negligible aging. In older individuals of these species, physiological dysfunctions are not found and there is no increase in mortality with age. Some vertebrates do not show the age-related changes characteristic of mammals, such as arthritis, hormonal chaos, osteoporosis, vascular disorders, tooth abrasion, etc.

A characteristic feature of the ageless is powerful regeneration. It is interesting that the superlongevity of animals on a planetary scale is not associated with the caloric intake of ageless organisms and with the habitat of different temperature optima.

The pearl oyster is a great example of ageless animals. Pearl oysters set a positive example for a person.  
- you can step over the 100-year mark on a massive scale, you just need to know how.

Distorted hypothalamic function plays a key role in rapid aging. The hypothalamus is a part of the brain that regulates autonomic functions, including appetite, water intake, bowel movements, urination, heart rate, blood pressure, body growth, and in higher vertebrates, also body temperature, lactation, and emotions.

According to V.M. Dilman's theory, accelerated aging of all vertebrates is activated by increasing the activity of the chain: hypothalamus → pituitary gland → adrenal cortex → increased cortisol → atrophy of the thymus gland (decreased immunity) → increase in blood glucose, fatty acids, cholesterol, insulin → death from myocardial infarction, kidney and strokes. In 1986 V.M. Dielman drew attention to the fact that hormonal shifts during aging of fish and humans coincide in detail. The only difference is that in humans, much more slowly what happens quickly in fish. Recently, on a sockeye salmon from Colorado (USA), it was shown that the deposition of beta-amyloid plaques on the brain neurons of salmon dying after spawning is strikingly similar to the course of Alzheimer's disease in humans.



Rice. 1. The pituitary gland and its effect on other endocrine glands

Researchers are increasingly inclined to believe that aging and related systemic diseases, including cancer, are formed not due to extinction, but, on the contrary, due to overstrain of the activity of systems that regulate the energy processes of adaptation and reproduction. In particular, due to an increase in activity, overexcitation of the hypothalamus and a decrease in its sensitivity to negative feedback signals.

There is an amazing example in nature when the biochemical program of rapid aging and post-reproductive suicide in salmon can be turned off under the influence of a symbiotic organism - the gill parasite - freshwater pearl mussel. At the same time, the maximum lifespan of salmon in symbiosis with pearl mussel is 5-6 times longer than usual.

The experiment revealed that the "parasite - symbiont" not only does not cause damage, for example, does not violate the blood formula and the motor activity of spermatozoa, but also heals its host, increasing resistance to unfavorable environmental factors.

The question is how to disable the aging program in humans? V.M. Dielman was one of the first to notice that the hormonal changes in salmon and humans are almost the same.

A preliminary analysis of the pearl mussel secretion showed that the "parasite - symbiont" secretes water-soluble substances into the host's blood, including amino acids, peptides and glycoproteins. We inherited the principles of subcortical structures management from our fish ancestors. If the pearl oyster larvae have learned to turn off the salmon aging program, then why shouldn't humans use similar mechanisms in order to dramatically extend their longevity. Based on the above, a biological product "Arctic" was created, the main component of which is the secret of pearl mussel glochidia.

Interesting studies have been carried out on the effects of this drug in various pathologies in fish and animals. Here are two of them.

#### Study 1

Salmon were infected with stage 2 epithelioma. The control group did not receive the biological product, and the experimental group was injected with the drug "Arktika" 3 times a week for 2 months (Table 1).

Table 1

Results of testing the biological product "Arctic" on salmon with stage 2 epithelioma

Comparable sick fish	The total number of fish surviving by the end of the experiment (of which the number of fish with tumors)		
	2000 year	2001 year	2002 year
Untreated (control)	10 out of 100 (10) *	14 out of 200 (14) *	22 out of 200 (22) *
Drug-treated	96 out of 100 (14) *	187 out of 200 (24) *	178 out of 200 (19) *

As you can see from the table. 1, a good therapeutic effect was obtained - the survival rate of salmon fry of the second stage of the disease increased from 7-11% (control) to 89-96% (treated), or, on average, 10 times.

#### Study 2

At the Research Institute of Oncology named after V.I. N.N. Petrov's mice were inoculated with Ehrlich's ascites carcinoma and the results of the control and experimental groups were also compared (Table 2).

table 2

Results of tests of the biological product "Arktika" on mice inoculated with Ehrlich's ascites carcinoma

Group	Time of death of mice with tumor, days after vaccination									
	nine	ten	ten	ten	12	12	13	13	13	12 ± 0.5 *
Control (water)	ten	eleven	12	13	13	15	15	15	16	14 ± 0.6 *

\* - The difference is significant in the compared groups (control experiment), P = 0.03.

According to the head of the department of the Research Institute of Oncology, Professor V.N. Anisimov, all mice of the control group died from 9 to 13 days after tumor inoculation. In the group of mice that received the drug "Arktika", 50% of mice survived the 13-day period. The average lifespan of mice under the influence of the drug significantly increased by 16.7%.

Doctors of the "IMEDIS" center analyzed the impact of the biological product "Arctic" on 182 patients, including: 128 women, 54 men aged 25 to 82 years with confirmed diagnoses.

When diagnosed by the method of vegetative resonance test "IMEDIS-TEST" the following disorders were revealed in patients: decreased immunity, blocking of adaptation reserves, more than 3 BI, thyroid dysfunction, prediabetes, allergies, increased cholesterol levels and some other disorders.

With the introduction into the measurement circuit of the biological product "Arctic", the indicators of BI, adaptation reserves, thyroid and pancreas function, immunity were leveled almost to normal. To a lesser extent, there was a recovery of indicators of allergy, hypertension, psychological stress (Table 3).

Table 3

The results of testing the biological product "Arctic" by the EPD method for various violations

Violations, identified at examination by ART method	Decreased immunity of biological reserves	Blocking Three or more adaptation of the index	Violation functions thyroid pituitary gland system	Violation hypothalamus	Allergy Hypertensive disease	Elevated level cholesterol		
General number	142	69	174	112	134	101	43	51
Recovery to normal	139	65	168	106	133	58	twenty	12
Trend towards normalization	3	4	5	5	1	37	15	27
Left without changes	-	-	1	1	-	6	eight	12

With informed consent, a study was conducted in 25 people to simulate various pathologies of the brain. Then the biological product "Arctic" was introduced into the measurement circuit and repeated measurements were carried out. The normalization of indicators was observed in almost all.

#### Conclusions and recommendations

The experience of application has shown that the biological product "Arktika" has a wide spectrum of medico-biological activity against the background of good tolerance and lack of toxicity. Apparently, the substances of the elixir cancel the command for the cells of the body to form an embryo-tumor.

From the point of view of evolution, fish are our distant ancestors, which are hundreds of millions of years old, and humans are the direct heirs of the basic ancestral instinct to defend their territory. It is no accident that in human embryonic development the embryo goes through the stages of the "tail" and "gills". These provisional organs are subsequently absorbed. However, the basic life programs of early vertebrates in our genome remain in the record. All that remains is to stimulate the production of appropriate gene products at the right time. Everyday stress can interfere with this instinct. Presumably, this instinct is "recorded" in the DNA of neurons (the suprachiasmatic nucleus of the hypothalamus). The control of the immune system by the hypothalamus is weakened. This leads to a malfunction of the tissues, uncontrolled cell division (Dilman, 1986).

However, taking an elixir containing bioregulators - signaling molecules (neuropeptides), normalizes the hypothalamus, which ultimately leads to a comprehensive improvement of the body.

According to the neuroendocrine theory of aging, professor-oncologist V.M. Dilman, with age, the human hypothalamus continues to work more and more actively, but reduces sensitivity to feedback from peripheral organs, including those responsible for immunity. The control of the body is impaired, and this leads to senile diseases, including cancer (Dilman, 1986).

Electro-acupuncture diagnostics made it possible to reveal the expediency of using the biological product "Arktika" in various pathological conditions.

In view of the above, we believe that a biological product can be used:

1. During treatment with BRT and homeopathy to accelerate the regeneration processes.
2. As a maintenance therapy after a course of BRT and homeopathy.
3. As an independent method when it is impossible to carry out BRT and other types of therapy.

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