



# SCIENTIFIC PRODUCTION SYSTEM

## “FERTILITY & ECOLOGY”

### Некоммерческое партнёрство Научно-производственная система “Плодородие и экология”

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### Dear inhabitants of the Earth!

SPS “Fertility & Ecology” is honored to offer you the international Project “From Udmurtia with health”.

**Objective:** On the basis of the latest scientific advancements to work out and implement a highly profitable research Project of the region development, which will take into account the positive potential of local climatic conditions, safe and rational attitude of society towards the environment and human health.

**Relevance:** Nowadays aging and cancer are the main thought-provoking factors for each person of mature age. These factors are closely connected because longevity often goes along with cancer risks. As American oncologists say, until recently, mankind did not live up to age-related cancer. Is it possible to age in vigorous health, and to be protected from cancer?

**The existing solutions:** To maintain a healthy lifestyle. But what if oncological problems still occur? Here, the answer is more difficult, because two centuries of fighting against cancer give extremely poor results: statistically, only seven patients recover out of a hundred. It is time we replaced surgery, chemotherapy and radiation therapy by more productive immunotherapeutic agents. Billions of dollars are being spent in the world to develop these agents. According to the Science journal, since 2013 immunotherapy has become a breakthrough technology. Which country is going to win the race? Oncology drugs form the largest (more than \$ 100 billion in 2015, according to IMS Health) and the fastest growing sector of the market. Moreover, in the next few years maximum preferentialism is expected on the part of the states. Prestige, substantial financing, etc.

**Grounds for the Project:** A twenty-year-experience of the Scientific Production System “Fertility & Ecology” has given a positive result. Clinical trials of the C.E.S.I. drug show better results than its American counterparts: the median survival is 2.4 times higher, even with stage IV cancer. The cost of immunotherapy is \$ 500 thousand in the US, while it is 975 thousand rubles in Russia, which is 33 times cheaper. Russian inventorship is recorded in the Library of Congress United States Copyright Office (101 Independence Avenue SE Washington, DC 20559) – the technology is called “Controlled Eosinophilic Syndrome Against Cancer. Scientific Discovery and Practical Aspects of Immunotherapy” (Registration Number TXu 1-974-907).

**Technological background:** A new phenomenon called controlled eosinophilic syndrome against cancer is discovered. The natural defense mechanisms of the immune system and ways to stimulate stem cells with the view to generating immunocompetent cells that destroy atypical cancer cells are found. Technology of immunostimulation with the use of the C.E.S.I. immunomodulator is developed and tested in practice. Unlike chemotherapy, which is destructive to the body of a patient, immunotherapy is based on the boost of immunity. Many years of treating patients with difficult diagnoses (stage IV cancer) showed high effectiveness of immunostimulation, not only as a therapeutic agent, but also as a training system for immunity of healthy people: it helps to get extra immune protection against external continuously varying pathogenic effects of the environment (bacteria, viruses) and internal



mutations (oncology).

**Related areas:** 1) resistance to aging. Immunostimulation helps to activate the hematopoietic function of stem cells. “Emerging evidence also indicates that reduced regenerative capacity is reversible and that the aging process can be postponed by improving stem cell function to replenish the damaged tissues. This raises the possibility that treatment of stem cells from diverse origins may reengineer the aging-related defects by replacing aberrant cells in the aged tissue.” Antiaging – Effect of Stem Cells on Aging and Stem Cell Aging. Jisook Moon and Sang-Hun Bae, College of Life Science, Department of Bioengineering, CHA University, Seoul, Korea. InTech, 2015;

2) athletic achievements and increased immunity. The use of the C.E.S.I. drug showed that patients after anti-cancer immunotherapy, as well as after preventive courses, have an increased vitality and extra energy. The explanation is simple: a person feels the ability to use the preserved energy that previously went to fight with a certain problem. After immunotherapy this energy is free and can be used at the discretion of the patient;

3) *preventive immune protection* against external pathogenic environment (health care workers), from stressful situations (economic managers and businessmen), from chronic fatigue syndrome. Finally, any person would like to raise their immunity and be healthy. These tasks can also be effectively solved through immunostimulation.

**Intention:** SPS “Fertility & Ecology” intends to establish a joint Research Centre in Izhevsk within the frames of the Project “From Udmurtia with health.” The Centre’s mission is to continue research and provide paid revitalizing personalized services to the population of Udmurtia, and later to the people of Udmurtia on the whole, as well as attracting a large world consumer niche (*thus, promoting international medical tourism, because prevention is better than any treatment*).

**Why Udmurtia and Izhevsk?** Firstly, Udmurtia with its a mild climate can facilitate the process of rehabilitation of patients and restore their health within the Project. Secondly, anti-cancer immunotherapy is a new medical sphere in Udmurtia. So the niche is empty and should be filled in. Anti-cancer immunotherapy as a cutting-edge, breakthrough field will develop in Udmurtia. We can work together to speed up the process.

**International partnership in the implementation of the Project:** The Project should be carried on a national level, so a possible option is a joint public-private partnership. The cost of this Project may be up to hundreds of millions of euro (technology, drugs, equipment for diagnostics, production facilities for the manufacture of drugs, the area for the provision of public services, research area with the necessary equipment and personnel). However, it is possible to significantly reduce the costs. There is proprietary technology, equipment and biomaterials used as an investment element, there is a team of professionals trained not only theoretically, but also proven effective in practice. Establishment of a small practical health-improving centre for medical tourism as a start-up. As required, the leading Russian scientists from Izhevsk State Medical Academy and Network of Clinics “Doctor Plus”, medical tourism experts from “Travel industry” company, Dutch scientists of the European Institute for the Biology of Ageing and representatives of scientific institutions in Udmurtia will be invited to join the Project.

**Information about the Project initiator:** Non-commercial partnership called the Scientific Production System “Fertility and ecology.” Year of creation – 1991. TIN 1835012103. The authorized capital is 58 million rubles. The main types of economic activity are research and development. The main activities: development of biotechnology, materials, equipment, regional concepts, projects of biomanufacturing and disposal facilities. The Partnership’s technologies are applied in medical research, organic farming and the production of fertilizers for agriculture, municipal sphere of organic waste utilization, design of disposal facilities with full biological wastewater treatment for socially important facilities, ecology and land restoration (bioremediation) after petroleum accidents and disasters.

The Partnership is the developer of the Technological Platform “Multipurpose complex of evolutionary biotechnology. Recycling of municipal and agricultural waste into building materials, production and use of bioproducts in municipal forestry and organic farming, soil fertility restoration and elimination of man-made problems, the solution of sanitation problems and improvement of urban climate, production of healthy food and biologically active forms that directly affect the immune system, disease prevention and health care.” The platform was published on the website of the Ministry of Economic Development of the Russian Federation.

The results of the Partnership’s developments are being implemented according to public contracts of the Ministry of Construction of the Udmurt Republic, oil companies, municipalities and private customers.

The developments have worldwide performance and innovation, all rights reserved.  
The Partnership has a number of diplomas and awards of the World Forums, academic conferences, Salons of Inventions.

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