

## Russian regional scientists project proposals for participation in FP7

### THEME 1: Health

[FP7-HEALTH-2010-single-stage](#)

[FP7-HEALTH-2010-two-stage](#)

[2.4. TRANSLATIONAL RESEARCH IN OTHER MAJOR DISEASES](#)

[3.5. SPECIFIC INTERNATIONAL COOPERATION ACTIONS FOR HEALTH SYSTEM RESEARCH](#)

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*Is interested in participation in a project that will be prepared and submitted in the following topics:  
**Insulin resistance as a key factor in the development of diabetes and metabolic syndrome***

**Call identifier: FP7-HEALTH-2010-single-stage**

#### **Short description of the organization:**

Burdenko VSMA was founded in 1918, and has the international partnership with Germany, Estonia, China on clinical medicine, directions of development of Pediatrics, new medical directions (genetics, high technologies) and improving of created scientific schools (on cardiology, laser medicine, pulmonology, nephrology, neurology).

#### **Expertise offered:**

According to the purpose of research the study of insulin resistance and molecular mechanisms of action of amaranth oil for a membrane  $\beta$ -cell, fatty, muscles tusses is planned, disorders of carbohydrate and fatty exchanges and is cardiovascular complications on the patients with metabolic syndrome and diabetes. The circuits of application of amaranth oil will be developed, the estimation of efficiency of amaranth oil as medical means in therapy of diabetes and metabolic syndrome and preventive - in preservation of health of the population is carried out. The new approaches to correction of insulin resistance on the persons suffering obesity, metabolic syndrome and diabetes are offered. Scientific novelty of the project is the development of the new approaches to treatment of insulin resistance on the patients with metabolic syndrome and diabetes using of amaranth oil and products on his basis. The programs of preventive maintenance of development diabetes and metabolic syndrome in the inhabitants of Europe and Russia with a tentative estimation both account of presence and character of insulin resistance will be offered.

Problems to be solved and results: improvement of quality of life and increase of life expectancy of the population at the expense of introduction in a diet of functional amaranth food products. Increase of efficiency of treatment of such serious diseases of the man as diabetes and metabolic syndrome.

#### 2) ***Socially-hygienic aspects of diseases of the population a diabetes***

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technologies) and improving of created scientific schools (on cardiology, laser medicine, pulmonology, nephrology, neurology).

**Expertise offered:**

Last 20-25 years in Russia are characterized as years of the deep social and economic reforms which have mentioned all of sphere of a life and activity of the our country, including, public health services. Studying epidemiological, socially hygienic, economic consequences of these reforms led change of a way of life sick diabetes in the Voronezh area and Voronezh is planned. The analysis of long-term tendencies of public health services of the population of region will be lead, plans and measures on preventive maintenance of late complications of a diabetes and improvement of quality of a life sick are developed by a diabetes. Scientific novelty of the project is development of new approaches to the analysis of socially hygienic aspects of a diabetes in conditions of reforming of the Russian public health services, introduction of obligatory medical insurance and increase in volume of the paid medical services, rendered to the population. Programs of preventive maintenance of a diabetes and its late complications at inhabitants of Russia and the Europe with a tentative estimation and the account of modern epidemiological, socially-hygienic tendencies of development of a diabetes and its late complications in view of experience of reforming of the Russian public health services will be offered. Problems to be solved and results: Improvement of quality of a life and increase in life expectancy of the population, including, a diabetes, due to improvement of the organization of rendering of specialized medical aid to the persons, a suffering diabetes, and infringement of tolerance to glucose. Increase of efficiency of treatment of such serious disease of the person, as a diabetes.

**Publications on the topic:**

- ✓ Khodykina L.A., Klimenko G.Y., Zoloedov V.I., Nazarenko E.A. The Voronezh endocrinology city center: stages of becoming and development // Applied information aspects of medicine. - 2003. – vol. 6, №2. - P. 111-116.;
- ✓ Khodykina L.A., Klimenko G.Y., Zoloedov V.I. Financial maintenance of the stationary help on patients with endocrinology pathology in conditions of municipal speciality center // Successes of modern natural sciences. - 2004. - №3. – P. 141-143.;
- ✓ Naumova N.V., Zoloedov V.I., Chernyshova E.P., Dushkin A.V., Petrova L.I., Svapienko V.N. Operational experience of branch “ Diabetic stop ” MUZ GO of Voronezh GKB № 10 for the period 1996-2005 year // Russian medical magazine. – vol., 14, № 26, 2006. – P. 1894-1895.