



Horizon 2020 'Health, demographic change and wellbeing'

Russian National Contact Point "Health"
Horizon 2020

INFO LETTER

December 2014

Open calls



[Joint initiative research projects competition of the Russian Foundation for Basic research \(RFBR\) and the Royal Society of London \(CA\) in 2015](#)

The aim of the competition is to grant financial support for joint initiative research projects being conducted by Russian and British scientists.

Projects of basic research may be submitted for the following areas of expertise:

Biology and medical science;

Content of the applications must be previously discussed and agreed in advance by Russian and British scientists taking part in the research competition. British scientists must apply to CA.

The term of conducting joint initiative research project is 2 years.

Applications are accepted **till: 30.06.2015**

http://www.rfbr.ru/rffi/eng/contests_international_announcement/o_1896351



[Joint Russian-French initiative research projects competition of the Russian Foundation for Basic research \(RFBR\) and Centre National de la Recherche Scientifique \(CNRS\)](#)

The aim of the competition is to grant financial support for initiative research projects being conducted by Russian and French scientists.

The Competition supports basic research projects being conducted by joint Russian and German scientist collectives in the research areas of mutual interest.

Projects of basic research may be submitted for the following areas of expertise:

Biology and Medical Sciences

The duration of the joint initiative research project is 1, 2 or 3 years.

Applications are accepted till: 03.03.2015 17:00

Russian and French scientists, supervisors of the joint project, must agree in advance on the name and content of their applications and submit the applications to CNRS.

http://www.rfbr.ru/rffi/eng/contests_international_announcement/o_1896350



[Joint initiative research projects competition of the Russian Foundation for Basic research \(RFBR\) and the German Research Foundation \(DFG\)](#)

Competition objectives: Financial support for both Russian and German researchers in their joint initiative scientific activities.

The Competition supports basic research projects being conducted by joint Russian and German scientist collectives in the research areas of mutual interest.

Projects of basic research may be submitted for the following areas of expertise:

Biology and Medical Sciences

Russian and German scientists, supervisors of the joint project, must agree in advance on the name and content of their applications and submit the applications to DFG (German Research Foundation).

The duration of the joint initiative research project is 1, 2 or 3 years.

Applications are accepted **till: 31.12.2014**

http://www.rfbr.ru/rffi/eng/contests_international_announcement/o_1896349

Russian research organisations – potential participants of international collaborative projects



Cardiology Research Complex, Moscow (CRC)

homepage: <http://www.cardioweb.ru/>

Russian Cardiology Research and Production Complex (CRC) is a Federal State Institution affiliated with the Ministry of Health. CRC comprises a number of Institutions, which focus on clinical and basic science, translation and drug development, which, overall, makes it a leading Russian medical scientific entity in cardiology. CRC has taken part in development and implication of novel strategies for cardiovascular disease diagnostics and treatment including coronary heart disease, heart failure their co-morbidities: metabolic syndrome, diabetes mellitus, and obesity. As a specialized therapeutic and preventive medical institution, the CRC also offers high quality clinical care to the most severe and complicated cardiovascular diseases with a significant number are referred from Moscow and various regions of the Russian Federation. CRC now consists of the Institute of Clinical Cardiology, Institute of Experimental Cardiology and an Experimental Manufacture for Production of Biomedical Formulations. All these divisions are fully equipped with medical and research equipment and employ a team of well-trained professionals. Among those specialists, six are members of the Russian Academy of Sciences, nine are members of the Russian Academy of Medical Science, 71 are doctors of science and 217 are MDs/PhDs. Several research projects in CRC during past 15 years are supported by grants of Russian Foundation of Basic Research, President of Russian Federation, INTAS, CRDF, Wellcome Trust as well as by Federal Agency of Science and Innovations. Every year more than 6,000 patients receive treatment in 8 departments of the Institute of Clinical Cardiology and 20,000 patients receive out-patient treatment in the Out-patient department. Annually, over 500 coronary artery bypass surgeries and complex combined operations on blood vessels and valves of the heart are performed and more than 1,000 endovascular interventions on coronary arteries and endocardial interventions in arrhythmias are made in CRC.

Drug development and basic studies are conducted in the Institute of Experimental Cardiology. Laboratory of Angiogenesis lead by prof Ye. Parfyonova, MD, DSc, has recently focused on gene and cell therapy for ischemic disease and has taken part development of novel plasmid drugs encoding urokinase or vascular endothelial growth factor for treatment of limb ischemia. Cell therapy studies include isolation and cultivation of mesenchymal stem cells from various sources - such as bone marrow, adipose tissue and Warton's jelly - and their further application for treatment of myocardial infarction, ischemic heart disease and heart failure.

Scientific networking has always been a priority in CRC including international projects and joint studies by Russian Institutes and academia. Recent completed international projects include FP7 HF-SICA project (heart failure comorbidity studies) and a Russia-Taiwan grant provided by Russian Fund for Basic Research (focusing on tissue engineering and adipose-derived stromal cells application for treatment of ischemia).

homepage: <http://www.almazovcentre.ru/>

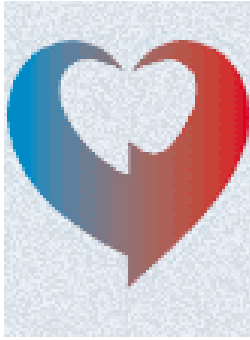
Federal Medical Research Center is located in the 4.5-mln city of Saint-Petersburg, Russia. This specialized hospital and clinical research center is fully equipped with state-of-the-art medical and research equipment and employs a team of well-trained professionals. Of the latter, key scientific personnel listed below possesses expertise in the specific field of the project, as well as in design, execution and administering of large-scale multi-site research projects. Together with the aggressive strategy accepted by the Center Director and Research Council in both clinical and fundamental research, this makes the Center a highly attractive location for clinics-oriented studies related to cardiovascular, endocrine and hematological disorders. Modern building of 52 000 m² includes out-patient clinics, Donor center, 350-bed in-patient clinics, 66-bed intensive therapy unit, 10 fully equipped surgery facilities, 6 angiographic surgery units, auxiliary services, etc. Second building of 11 000 m² (located separately) includes 360-bed in-patient clinics (including 80 beds dedicated to recovery/reconvalescence patients), 7-bed intensive therapy unit, fully equipped biochemical laboratory, cell culture research laboratory (BSL-III class) and clinical genetics laboratory, as well as the Dept. of Functional Research utilizing noninvasive and X-ray-based methods, vivarium, auxiliary services, etc. In year 2008, Perinatology center construction will be launched to further supplement Center services will aid to the pregnant with cardiovascular pathology and diabetes, treating newborns with heart and blood vessel pathology, etc. In the laboratories of the Center, extensive experimental and applicative studies related to mesenchymal stem cells and endothelial progenitor cells, blood vessel biology, tissue ischemia biology, advanced molecular diagnostics, experimental surgery and other subjects is currently underway. Taken together, features of the Center as a major joint clinical/research venture (with solid contacts established with many supreme clinical and research sites world-wide) ensure it makes a solid contribution to the overall project of such a complexity.



**Lomonosov Moscow State University, Faculty of Fundamental
Medicine**

homepage: <http://www.fbm.msu.ru/>

Faculty of Fundamental Medicine is an educational and research institution within Lomonosov Moscow State University. It has the experience in research focused on genomic studies of human gene polymorphism, the vascular biology, biology of progenitor cells as well as intracellular signaling pathways involved in the regulation of vascular and progenitor cell functioning. We have recently accomplished research projects supported by grants from Russian Foundation of Basic Research, President of Russian Federation, INTAS, CRDF, Wellcome Trust as well as by Federal Agency of Science and Innovations, including (1) Genetic diagnostic research in detection of certain genes polymorphism in population and among patients with liver pathology, cardiovascular diseases and hemostasis function disorder (2) Development of genodiagnosticums for revelation of personal predisposition to familial hemochromatosis and hereditary thrombophilia, (3) Development of genodiagnosticums for revelation of personal predisposition to early-onset ischemic heart disease, miscarriage and quick development of liver fibrosis during virus hepatitis. Faculty has established DNA bank containing DNA samples from 1500 healthy donors and 1500 DNA of patients with various pathologies. We have a modern instrumental fund allowing to perform a DNA diagnostic research and high-throughput DNA extraction from biological specimens as well as complex analysis of biological systems, including preparative fluorescence-activated cell sorter (MoFlo, Dako Cytomation), real-time PCR machines (iCycler, Bio-Rad), fluorescent microscope station for vital cell imaging (Leica), fully equipped tissue culture facility etc.



Institute of Cardiology, Tomsk Research Centre

homepage: <http://www.cardio-tomsk.ru/>

Laboratory molecular and cell pathology and gene diagnostic: Researchers have a long-term experience in electrophysiological research of the human and animal (rat) myocardium. Functional heterogeneity of human failing heart was studied extensively in our laboratory. Comparative research of myocardium of patients with heart failure of a different etiology was performed. Ambiguous alteration of sarcoplasmic reticulum function of myocardium of patients at the development heart failure was obtained, and an assumption of existence of various ways of myocardium adaptation to damaging factors was made. Our preliminary results showed that development of heart failure is accompanied with sarcoplasmic reticulum dysfunction.

Functional and Laboratory Diagnostics Department is specialized on studying of proinflammatory factors, oxygen-dependent processes in platelets, mononuclear leucocytes and oxidative resistance of lipoproteins at metabolic syndrome. The research is focused on the study of cellular and molecular mechanisms of platelet aggregation activity disturbances during the association of diabetes mellitus, ischemic heart disease and heart failure.

Department of Chronic Heart Disease of Tomsk Institute of Cardiology accumulated a huge knowledge of diagnostics, treatment and prevention of cardio-vascular pathologies, including chronic heart failure and such co-morbidities as metabolic syndrome, diabetes mellitus, and obesity, in patients from Siberia and neighbor regions: the Far East, Middle Asia and Kazakhstan. Being organized as one of the leading departments of the Institute, it possesses a 25-year experience in experimental and clinical cardiology.