



**IV Russian Congress with International Participation**  
**MOLECULAR BASIS OF CLINICAL MEDICINE: STATE-OF-THE-ART**  
**AND PERSPECTIVES**  
**III Russian-Chinese Forum**  
**ECONOMIC ISSUES OF MOLECULAR AND PERSONALIZED**  
**MEDICINE**

**November 29 – December 2, 2017**  
St. Petersburg, Russian Federation

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*The Congress will be held within the framework of the Week of Science in St. Petersburg*

*Russian-Chinese Forum is scheduled on November 24, 2017*

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- Northwestern State Medical University named after I.I. Mechnikov
- St. Petersburg State University of Economics
- Academy of Molecular Medicine
- Association of Specialists in the Field of Molecular Medicine, Laboratory and Medical Genetics named after E.I. Schwartz
- University Tsinghua (China People Republic)

**WITH PARTICIPATION:**

- Russian Society of Medical Genetics
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- Institute of master's degree programs at St. Petersburg State University of Economics
- St. Petersburg State Polytechnic University
- Research Children's Orthopedic Institute named after G.I. Turner
- Russian Ilizarov Scientific Center for Restorative Traumatology and Orthopedics
- St. Petersburg V.M. Bekhterev Psychoneurological Research Institute
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- St. Petersburg National Research University ITMO and Institute of Translational Medicine
- St. Petersburg Clinical Research and Practical Center for Specialized Health Care (Oncology)
- St. Petersburg Diagnostic Medical Genetics Centre
- Russian Association for the Advancement of Science
- Association of Specialists and Organizations on Laboratory Services "Federation of Laboratory Medicine"
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- St. Petersburg Association of Neurologists
- St. Petersburg Society of Anesthesiology and Resuscitation Science and Practice
- St. Petersburg Branch of Russian Association of Human Reproduction
- OOO Human and Health, Ltd
- OOO Training of Medical Workers, Ltd

**WITH SUPPORT:**

- Ministry of Health of the Russian Federation
- General Consulate of Chinese People Republic in St. Petersburg
- Committee for Public Health of St. Petersburg Administration
- Committee for Public Health of Leningrad Oblast Administration
- Committee for Science and Higher Education of St. Petersburg Administration
- Russian Academy of Sciences

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*Head of Educational Center for Studies on Social and Economic Problems of Countries in Asian and Pacific Region, St. Petersburg State University*

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- Academy of Molecular Medicine
- Fund to support international cooperation «Fund of International Innovation Programs»
- Chinese-Russian Cultural and Educational Association for Development and Communications

## **OFFICIAL SERVICE AGENT**

«Finec-congress», Ltd

## **OFFICIAL WEBSITE**

[www.molmed.spb.ru](http://www.molmed.spb.ru)

## **VENUES**

Hotel Holiday Inn, Moskovskiye Vorota, Moskovsky avenue, 97, St. Petersburg

Institute of magistracy (master's degree programs), Moskovsky avenue, 103, St.

Petersburg

# PROGRAM

November 29

<b>08.00 - 10.00</b>	<b>REGISTRATION AND EXPO OPENING</b>
<b>09.00 - 09.45</b>	<b>Board Meeting</b> of Association of Specialists in the Field of Molecular Medicine, Laboratory and Medical Genetics Named after E.I. Schwartz.
<b>United Hall 1-4</b>	
<b>10.00 - 10.30</b>	<b>OPENING CEREMONY</b>
	<p><b>Salutary addresses</b></p> <p><b>Igor A. Maximtsev</b> <i>Rector, St. Petersburg State University of Economics</i></p> <p><b>Dmitry V. Vasilemko</b> <i>Vice-Chancellor, St. Petersburg State University of Economics</i></p> <p><b>Мяо Юань</b> <i>Consul on Science, General Consulate of Chinese People Republic in St. Petersburg</i></p> <p><b>Nikolay P. Shabalov</b> <i>President of Union of Pediatricians of Russia, Head of Department of Childhood Diseases, Kirov Military Medical Academy</i></p> <p><b>Alexey V. Silin</b> <i>Vice-Chancellor, Northwestern State Medical University named after I.I. Mechnikov</i></p> <p><b>Joni Odaj</b> <i>Assistant Professor, Tishreen University, Latakia, Syria</i> <i>Tatiana G. Tumarova, Head, Institute of master's degree programs, St. Petersburg State University of Economics</i></p>
<b>10.30 - 13.30</b>	<b>PLENARY SESSION I</b>
<b>10.30 - 10.50</b>	<b>Economic support for the formation and functioning of a medical cluster</b> <i>Karlik A.E. (St. Petersburg State University of Economics)</i>
<b>10.50 - 11.20</b>	<b>Practical application of molecular testing methods in China</b> <i>Сун Ваньли, (Institute of Gerontology, University Tsinghua, China)</i>
<b>11.20 - 11.40</b>	<b>Modern achievements in systemic molecular medicine: from genetic diagnosis to genomic hermeneutics</b> <i>Iourov I.Y., Vorsanova S.G., Yurov Y.B. (Mental Health Research Center, Academician Yu.E. Veltishchev Research Clinical Institute of Pediatrics, Russian Medical Academy of Postgraduate Education, Moscow)</i>
<b>11.40 - 12.10</b>	<b>Transformation of marketing of the Chinese pharmaceutical enterprise from the point of view of the policy of "two receipts"</b> <i>Гэн Хуну, (Association of Science and Technology at the University Tsinghua, China)</i>
<b>12.10 - 12.40</b>	<b>Personalized medicine - the concept of health of the 21st century</b> <i>Larionova V.I., Silin A.V. (Northwestern State Medical University named after I.I. Mechnikov)</i>
<b>12.40 - 13.00</b>	<b>Organizational and legal issues of Russian-Chinese cooperation in the field of medicine</b> <i>Ivanov D.V. (St. Petersburg State University of Architecture and Civil Engineering)</i>
<b>13.00 - 13.15</b>	<b>Development of interdisciplinary and international educational projects</b> <i>Efimova N.F. (St. Petersburg State University of Economics)</i>
<b>13.15 - 13.30</b>	<b>An experience of Russian-Chinese cooperation in the field of medicine</b> <i>Marenko Yu.A., Xin Tangmina (Traditional Chinese medicine clinic, Ltd)</i>
<b>13.30 - 14.00</b>	<b>Lunch</b>

<b>Hall 1</b>	
	<b>MicroRNA IN CLINICAL PRACTICE</b>
<b>14.00 - 16.15</b>	<b>Chairpersons:</b> <i>Zaraisky M.I., Larionova V.I., Poliakova E.A.</i>
<b>14.00 - 14.30</b>	<b>Possibilities of microRNAs as promising biomarkers in clinical practice</b> <i>Zaraisky M.I., Seliverstov R.Yu., Gurchin A.F. (Pavlov First Saint Petersburg State Medical University, Institute of Human Brain)</i>
<b>14.30 - 14.50</b>	<b>MicroRNA-21 as a biomarker of kidney damage</b> <i>Kayukov I.G., Zaraisky M.I., Beresneva O.N., Parastaeva M.M. (Pavlov First Saint Petersburg State Medical University)</i>
<b>14.50 - 15.10</b>	<b>MicroRNA expression: 27a, 133 and 203 in the serum of patients with IHD with different severity of coronary artery lesions</b> <i>Polyakova E.A., Petukhova D.I., Zaraisky M.I., Berkovich O.A., Baranova E.I. (Pavlov First Saint Petersburg State Medical University)</i>
<b>15.10 - 15.30</b>	<b>Micro RNA of saliva as one of the methods of early diagnosis of colorectal cancer</b> <i>Kiseleva E.V., Zakharenko A.A., Zaraisky M.I. (Pavlov First Saint Petersburg State Medical University)</i>
<b>15.30 - 15.50</b>	<b>Epigenetic mechanisms of bronchial asthma</b> <i>Mironova Zh.A., Dyachenko N.A., Ulitina A.S., Trofimov V.I., Pchelina S.N., Dubina M.V. (Pavlov First Saint Petersburg State Medical University)</i>
<b>15.50 - 16.15</b>	<b>Discussion</b>
<b>16.15 - 16.30</b>	<b>Coffee break</b>
	<b>BONE MARROW TRANSPLANTATION AS A METHOD OF HEREDITARY METABOLIC DISEASES TREATMENT</b>
<b>16.30 - 18.30</b>	<b>Chairpersons:</b> <i>Larionova V.I., Bykova T.A.</i>
<b>16.30 - 17.00</b>	<b>MPS type 1, clinic, diagnosis and treatment</b> <i>Larionova V.I. (Northwestern State Medical University named after I.I. Mechnikov)</i>
<b>17.00 - 17.30</b>	<b>Results of allogeneic transplantation of hematopoietic stem cells in patients with type 1 mucopolysaccharidosis. Experience Institute of Pediatric Hematology and Transplantology n.a. Raisa Gorbacheva and Pavlov First Saint Petersburg State Medical University</b> <i>Bykova T.A. (Pavlov First Saint Petersburg State Medical University)</i>
<b>17.30 - 17.50</b>	<b>Modern standards of the European Federation of Immunogenetics for the examination of the donor and recipient of hematopoietic stem cells (GSK)</b> <i>Pavlova I.E. (Russian Research Institute of Hematology and Transfusiology under Federal Medical Biological Agency)</i>
<b>17.50 - 18.10</b>	<b>The use of fragment analysis to evaluate chimerism after allogeneic GSK transplantations</b> <i>Polyakova A.P., Volkova O.Y. (Almazov National Medical Research Centre)</i>
<b>18.10 - 18.30</b>	<b>Haploidentical transplants of GSK: experience of Almazov National Medical Research Centre</b> <i>Motorin D.V. (Almazov National Medical Research Centre)</i>

<b>Hall 2</b>	
<b>14.00 - 16.15</b>	<p style="text-align: center;"><b>ROUND TABLE: HISTORY OF LENINGRAD - ST. PETERSBURG MEDICAL GENETICS. IN PERSONAL STORIES</b></p> <p><b>The Round Table is arranged for veterans of medical genetics of Leningrad - St. Petersburg</b> by Academy of Molecular Medicine</p> <p><b>Moderators:</b> <i>Kovaleva N.V. Lazebnik T.A., Ledascheva T.A., Khalchitsky S.E.</i></p> <p><b>Cordially invited veterans of medical genetics are</b> <i>Baranov Vladislav S., Verlinskaya Dora K., Gorbunova Viktoria Y., Vorobtsova Irina E., Kadurina Tamara I., Kitayev Edward M., Lazebnik Tamara A., Mikhelson Viktor M., Mkheidze Medeia O., Nikitin Anatoly I., Pimenova Marina N., Prozorova Marina V., Romanenko Olga P., Rosenberg Oleg A., Slozina Natalia M., Talalaeva Elena I., Khromov-Borisov Nikita N., Shavlovsky Michail M., Shaposhnikov Alexandr M.</i></p>
<b>16.15 - 16.30</b>	<b>Coffee break</b>
<b>16.30 - 18.30</b>	<b>ROUND TABLE: HISTORY OF LENINGRAD - ST. PETERSBURG MEDICAL GENETICS. IN PERSONAL STORIES (continued)</b>



<b>Hall 3</b>	
<b>14.00 - 16.15</b>	<p style="text-align: center;"><b>ROUND TABLE: FINANCIAL AND NON-FINANCIAL MEASURES TO SUPPORT INNOVATIONS IN HEALTH CARE AND PHARMASEUTICAL INDUSTRY</b></p> <p><b>Chairpersons:</b> <i>Efimova N.F., Urzhumtseva T.B.</i></p>
<b>14.00 - 14.05</b>	<b>Greetings</b>
<b>14.05 - 14.25</b>	<p><b>Issues of financing, evaluation of the cost and investment of medical technologies in modern conditions</b> <i>Efimova N.F. (Department of corporate finance and business valuation, Academic Director of the Master's Program "Finance of Innovative Medicine", St. Petersburg State University of Economics)</i></p>
<b>14.20 - 14.40</b>	<p><b>Insurance funds as a source of co-financing of innovations in medicine</b> <i>Gorulev D.A. (Department of banks, financial markets and insurance, St. Petersburg State University of Economics)</i></p>
<b>14.40 - 15.00</b>	<p><b>Financing of innovative projects in China</b> <i>Urzhumtseva T.B. (Center for Studies on Social and Economic Problems of Countries in Asian and Pacific Region, St. Petersburg State University of Economics)</i></p>
<b>15.00 - 15.20</b>	<p><b>Public-private interaction in health projects</b> <i>Sulejmanov Tair (Dentons)</i></p>
<b>15.20 - 15.40</b>	<p><b>Investment and innovation in biotechnology</b> <i>Abdalova E.B. (St. Petersburg State University of Economics)</i></p>
<b>15.40 - 16.00</b>	<b>Professional orientation session</b>
<b>16.00 - 16:15</b>	<b>Discussion</b>
<b>16.15 - 16.30</b>	<b>Coffee break</b>
<b>16.30 - 18.30</b>	<p style="text-align: center;"><b>ROUND TABLE: DEVELOPMENT OF THE PARTNERSHIP OF THE STATE AND BUSINESS. IN THE DIGITAL ECONOMY</b></p> <p><i>Discussion of the issues of creating an enabling environment for interaction between the state and business in the digital economy in the healthcare and pharmaceutical industry</i></p> <p><b>Moderator:</b> <i>Efimova N.F.</i></p> <p><b>Experts:</b> <i>Lukovnikova N.M. (Director of scientific and technological foresight, St. Petersburg National Research University ITMO), Grinberg A.A. (Avalor, Ltd ), Gorulev D.A. (Department of banks, financial markets and insurance, St. Petersburg State University of Economics)</i></p>

<b>Hall 4</b>	
<b>14.00 - 16.15</b>	<p style="text-align: center;"><b>ROUND TABLE: ACTUAL PROBLEMS OF PHARMACEUTICAL AND MEDICAL LAW</b></p> <p><b>Moderators:</b> <i>Krajnova N.A., Abramova E.N.</i></p>
<b>14.00 - 14.10</b>	<b>Welcome speech by the Dean of the Faculty of Law at St. Petersburg State University of Economics</b>
<b>14.10 - 14.30</b>	<p><b>The right of everyone to affordable and high-quality medical care in the Russian Federation: constitutional and legal aspects</b></p> <p><i>Timofeev I.V. (Judge of the Statutory Court of St. Petersburg)</i></p>
<b>14.30 - 14.40</b>	<b>Discussion</b>
<b>14.40 - 15.00</b>	<p><b>Legal aspects of early access in Russia</b></p> <p><i>Akimova M.M. (BIOCAD)</i></p>
<b>15.00 - 15.10</b>	Discussion
<b>15.10 - 15.30</b>	<p><b>On the issue of assessing harm to health</b></p> <p><i>Semenov S.L. (St. Petersburg State University of Economics)</i></p>
<b>15.30 - 15.40</b>	Discussion
<b>15.40 - 16.00</b>	<p><b>Legal aspects of the use of digital technologies in medicine</b></p> <p><i>Abramova E.N. (St. Petersburg State University of Economics)</i></p>
<b>16.00 - 16.15</b>	<b>Discussion</b>
<b>16.15 - 16.30</b>	<b>Coffee break</b>
<b>16:30 - 18:00</b>	<p style="text-align: center;"><b>ROUND TABLE: INTERACTION OF PUBLIC AND PROFESSIONAL COMMUNITIES WITH LEGISLATIVE AND EXECUTIVE AUTHORITIES IN THE FIELD OF PUBLIC HEALTH</b></p> <p><b>Moderators:</b> <i>Larionova V.I., Rudnik A.Ju., Ivanov D.V., Urzhumtseva T.V.</i></p>
<b>16.30 - 18.30</b>	<p><b>Access of patients to treatment with innovative drugs</b></p> <p><b>Moderator:</b> <i>Karimova S.I. President of the National Association of Patients with Rare Diseases "Genetics". Member of the Expert Council at the State Duma Committee on Health Protection for Rare Diseases.</i></p>
<b>19.00</b>	<b>Welcome dinner</b>

## November 30

<b>Hall 1</b>	
<b>08.30 - 12.00</b>	<p><b>EDUCATION COURSE: DYSHORPHIES IN DIAGNOSIS OF INHERITED DISEASES. DEMONSTRATION OF CLINICAL CASES. CHOOSING METHODS OF DIAGNOSTICS</b></p> <p><i>The purposes of the event are: Deepening knowledge and training practical skills of pediatricians and medical geneticists in the diagnosis of hereditary diseases that occur with congenital and acquired dysmorphs, the timely detection of which leads to effective treatment. Strengthening of multidisciplinary contacts of pediatric physicians with physicians of other specializations</i></p> <p><b>Chairpersons:</b> <i>Larionova V.I., Khramtsova E.G., Melnikova I.Y., Baidurashvili A.G.</i></p>
<b>08.30 - 09.00</b>	<b>Greetings. preliminary testing of attendees</b>
<b>09.00 - 09.30</b>	<p><b>Dysmorphology in pediatrics: diagnosis and treatment of hereditary diseases</b></p> <p><i>Larionova V.I. (Northwestern State Medical University named after I.I. Mechnikov)</i></p>
<b>09.30 - 10.00</b>	<p><b>Methodology of objective examination of a patient for the detection of dysmorphic and developmental defects: the role of propaedeutics</b></p> <p><i>Khramtsova E.G. (Northwestern State Medical University named after I.I. Mechnikov)</i></p>
<b>10.00 – 10.20</b>	<p><b>Dysmorphology as a manifestation of lysosomal diseases: a view of a children's dentist</b></p> <p><i>Kuzmina D.A. (Saint-Petersburg Medico-Social Institute)</i></p>
<b>10.20 - 10.40</b>	<p><b>Dysmorphology in the practice of an orthopedist. Multidisciplinary aspects of diagnosis and treatment</b></p> <p><i>Kenis V.M. (Research Children's Orthopedic Institute named after G.I. Turner, St. Petersburg)</i></p>
<b>10.40 - 11.00</b>	<p><b>Dysmorphology with the eyes of an ophthalmologist</b></p> <p><i>Rudnik A.Yu. (Pirogov Russian National Research Medical University, Moscow; Kirov Military Medical Academy, St. Petersburg)</i></p>
<b>11.00 - 11.45</b>	<p><b>Analysis of clinical cases. Diagnostic algorithms of hereditary diseases with dysmorphism in pediatric practice. Dysmorphia in children with hereditary metabolic diseases (mucopolysaccharidosis, Pompe disease, mucopolipidosis, homocystinuria, peroxisomal diseases, impaired cholesterol synthesis)</b></p> <p><i>Larionova V.I., Khramtsova E.G., Melnikova I.Y., Buatnikova M.A. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i></p>
<b>11.45-12.00</b>	<b>Follow-up testing, summarizing-up</b>

<b>Hall 2</b>	
<b>10.00 - 11.30</b>	<p style="text-align: center;"><b>SATELLITE SYMPOSIUM: ILLUMINA TECHNOLOGIES IN STUDYING THE FUNCTION OF THE GENOM</b></p> <p><b>Organizer:</b> <i>Albiogen, Ltd</i></p>
<b>10.00 - 10.15</b>	<p><b>Main directions and applications of NGS technology</b> <i>Jeroen Adema, (Specialist in sales and sample preparation, Illuminia)</i></p>
<b>10.15 - 10.30</b>	<p><b>The use of NGS to identify the inherited nature of the disease in patients with breast cancer</b> <i>Novikova Ekaterina (Russian Scientific Center of Radiography and Radiology, Moscow)</i></p>
<b>10.30 - 10.45</b>	<p><b>The role of high-performance sequencing in the diagnosis of AML in children</b> <i>Panferova A. (Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology, and Immunology, Moscow)</i></p>
<b>10.45 - 11.00</b>	<p><b>The role of high-performance sequencing in the diagnosis of AML in children. High-performance sequencing in molecular pathology</b> <i>Barinov A. (Moscow City Oncological Hospital No. 62)</i></p>
<b>11.00 - 11.30</b>	<b>Coffee break</b>

<b>Hall 3</b>	
<b>9.00 - 12.00</b>	<p style="text-align: center;"><b>EDUCATIONAL SEMINAR: US MARKERS OF HEREDITARY DISEASES IN CHOICE OF ALGORITHMS OF LABORATORY AND MOLECULAR DIAGNOSTICS</b></p> <p><i>The program was arranged by employees of the Petersburg Diagnostic Medical Genetics Centre</i></p> <p><i>The purpose of the event: deepening of knowledge and broadening of the professional horizons of ultrasound diagnostics doctors, obstetrician-gynecologists, pediatricians and medical geneticists in the diagnosis of hereditary diseases, which occur with echographic deviations in the prenatal period, by molecular genetic methods, congenital dysmorphisms - in the postnatal period, the timely detection of which leads to the development of adequate antenatal tactics and effective medical care and post-partum treatment. Strengthening of multidisciplinary contacts of doctors of ultrasound diagnostics, obstetrician-gynecologists, pediatricians and medical geneticists</i></p> <p><b>Chairpersons:</b> <i>Karpov K.P., Vokhmjanina N.V., Voronin D.V.</i></p>
<b>9.00 - 9.30</b>	<b>Opening of the seminar, greeting participants</b>
<b>9.30 - 10.00</b>	<p><b>Diagnosis of congenital and hereditary pathology by molecular methods is a new strategy of genetic assistance to the population in the framework of the city health program of St. Petersburg</b> <i>Karpov K.P.</i></p>
<b>10.00 - 10.30</b>	<p><b>Modern approaches to detect hereditary metabolic diseases</b> <i>Vokhmjanina N.V.</i></p>
<b>10.30 - 11.00</b>	<p><b>Prenatal echography as a method of prenatal prenatal diagnosis of congenital and hereditary diseases</b> <i>Voronin D.V.</i></p>
<b>11.00 - 11.30</b>	<p><b>The role of molecular genetic studies in the refinement of syndromic pathology. Experience of the medical and genetic center of St. Petersburg</b> <i>Gladkova N.A.</i></p>
<b>11.30 - 12.00</b>	<p><b>NGS in the algorithm for confirmation the diagnosis of neonatal screening of monogenic diseases</b> <i>Churyumova Yu.A.</i></p>

<b>Hall 4</b>	
	<b>MOLECULAR IMMUNOPATHOLOGY, RHEUMATOLOGY</b>
<b>09.00 - 12.00</b>	<b>Chairpersons:</b> <i>Kostik M.M., Lapin S.V.</i>
<b>09.00 - 09.40</b>	<b>Auto-inflammatory syndromes</b> <i>Kostik M.M. (St. Petersburg State Pediatric University)</i>
<b>09.40 - 10.00</b>	<b>Methods of systemic biology in the study of inflammatory response</b> <i>Sergushichev A.S. (St. Petersburg National Research University ITMO)</i>
<b>10.10 - 10.20</b>	<b>Pathology of the complement system. New molecular markers in diagnosis, treatment</b> <i>Tkachenko O.Yu., Lapin S.V. (St. Petersburg)</i>
<b>10.20 - 10.50</b>	<b>Diagnosis and treatment tactics in primary immunodeficiencies</b> <i>Guseva M.N. (St. Petersburg State Pediatric University)</i>
<b>10.50 - 11.10</b>	<b>Angioedema</b> <i>Emelyanov A.V. (St. Petersburg)</i>
<b>11.10 - 11.25</b>	<b>The spectrum of mutations of the SERPINA1 gene in the group of patients with occupational bronchopulmonary pathology</b> <i>Khafizov K.F., Kuzmina L.P., Anokhin N.N., Litvinova M.M. (Central Research Institute of Epidemiology, Rosпотребнадзор, Moscow)</i>
<b>11.25 - 11.40</b>	<b>Free light chains of immunoglobulins in the diagnosis of paraproteinemia</b> <i>Dubina I.A., Lapin S.V. (Pavlov First Saint Petersburg State Medical University)</i>
<b>11.40 - 11.55</b>	<b>INTERLEUKIN-6, 14-3-3-D CALPROTEKTIN AND BUTYRYLCHOLINESTERASE AS THE MOST PROMISING BIOMARKERS FOR THE DEVELOPMENT OF A COMPLEX TEST SYSTEM FOR THE DIAGNOSIS OF RHEUMATOID ARTHRITIS</b> <i>Kozlova D.I. (Sechenov Institute of Evolutionary Physiology and Biochemistry, Moscow)</i>
<b>11.55 - 12.00</b>	<b>Discussion</b>
<b>12.00 - 12.15</b>	<b>Coffee Break</b>

<b>United Hall 1-4</b>	
<b>12.15 - 13.00</b>	<b>LECTURE: MODERN VIEWS OF SYSTEM DISPLAYS OF THE SKELETON, CLASSIFICATION AND STRATEGY FOR DIAGNOSTICS OF SKELETAL DYSPLASIAS</b> <i>Dr. Али Аль-Каусси, (Vienna, Austria)</i>
<b>13.00 - 13.45</b>	<b>Lunch</b>
<b>13.45 - 16.00</b>	<b>PLENARY SESSION 2</b>
<b>13.45 - 14.05</b>	<b>Physiological processes of growth in children: factors of influence</b> <i>Scheplyagina L.A., Polyakova E.Yu. (Moscow )</i>
<b>14.05 - 14.25</b>	<b>Modern diagnosis of hereditary diseases with heart damage: at the junction of fundamental biology, bioinformatics and clinical medicine</b> <i>Kostareva A.A. (St. Petersburg)</i>
<b>14.25 - 14.45</b>	<b>Genetic markers of cardiovascular risk factors. What searched 25 years ago and what they are looking for now</b> <i>Fomicheva E.V. (USA)</i>
<b>14.45 - 15.05</b>	<b>Diagnosis and treatment of Goshe disease: clinical-molecular correlations</b> <i>Belogurova M.B. (St. Petersburg)</i>
<b>15.05 - 15.25</b>	<b>New strategies for the treatment of hereditary diseases. Fabry's disease</b> <i>Larionova V.I. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>15.25 - 15.45</b>	<b>From molecular genetic tests to analytical DNA measurements. Constructing a reference system for measuring nucleic acids</b> <i>Vonsky M.S. (Institute of Cytology, St. Petersburg)</i>
<b>15.45 - 16.00</b>	<b>Nutrition - Molecular Processes</b> <i>Dadaly V.A. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>16.00 - 16.15</b>	<b>Coffee break</b>

<b>Hall 1</b>	
<b>16.15 - 18.30</b>	<p style="text-align: center;"><b>EDUCATION COURSE FOR CLONICIANS: DYSMORPHIES IN DIAGNOSIS OF INHERITED DISEASES. DIAGNOSIS AND TREATMENT OF HEREDITARY DISEASES IN ORTHOPEDIC PRACTICE</b></p> <p><b>Chairpersons:</b> <i>Kadurina T.I., Volgina S.Ya., Vissarionob S.V.</i></p>
<b>16.15 - 16.45</b>	<p><b>Modern ideas about the Ehlers-Danlos syndrome. New classification. Algorithms of verification. Clinical examples</b> <i>Kadurina T.I., Larionova V.I. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i></p>
<b>16.45 - 17.05</b>	<p><b>Clinical examples of patients with MHC IVA</b> <i>Polyakova O.A. (National Medical Research Center of Traumatology and Orthopedics n.a. N.N. Priorov, Moscow)</i></p>
<b>17.05 - 17.20</b>	<p><b>Surgical treatment of spine pathology in patients with mucopolysaccharidosis</b> <i>Ochirova P.V., Riabych S.O., Gubin A.V. (Russian Ilizarov Scientific Center for Restorative Traumatology and Orthopedics, Kurgan)</i></p>
<b>17.20 - 17.35</b>	<p><b>Diagnosis of hypophosphatase. Clinical case</b> <i>Kekeeva T.N.</i></p>
<b>17.35 - 17.50</b>	<p><b>Genetic diagnosis of achondroplasia and hypochondroplasia</b> <i>Sogoyan M.V. Nazarov V.D., Lapin S.V., Khalchitsky S.E. (Pavlov First Saint Petersburg State Medical University, Scientific Research Children's Orthopedic Institute n.a. G.I. Turner, St. Petersburg)</i></p>
<b>17.50 - 18.10</b>	<p><b>Features of surgical treatment of vertebral syndrome in patients with genetic diseases</b> <i>Ochirova P.V., Riabych S.O., Gubin A.V. (Russian Ilizarov Scientific Center for Restorative Traumatology and Orthopedics, Kurgan)</i></p>
<b>18.10 - 18.30</b>	<p><b>Mucopolidosis. Differential diagnosis. Diagnosis, treatment</b> <i>Bulatnikova M.A., Kotelevskaya E., Vasilishina A.A. (Pokrovsky stem cell bank, St. Petersburg)</i></p>

<b>Hall 2</b>	
<b>16.15 - 18.30</b>	<p style="text-align: center;"><b>DNA DIAGNOSIS IN LEGAL PRACTICE. DNA - DIAGNOSTICS IN LEGAL PRACTICE (EDUCATION COURSE FOR LAWYERS)</b></p> <p><b>Chairpersons:</b> <i>Ivanov D.V., Khalchitsky S.E., Skakun V.N.</i></p> <p><b>Topical issues of application of molecular genetic methods in forensic examination and legal practice</b> <i>Ivanov D.V. (St. Petersburg State University of Architecture and Civil Engineering)</i></p>
	<p><b>Features of the selection and preservation of biological traces found at the scene, as well as micro-traces on physical evidence, for further molecular genetic testing</b> <i>Mikhaylova N.N. (Regional Forensic Bureau, Tyumen)</i></p>
	<p><b>The use of technology Applied Biosystems™ for identification of human DNA in forensic science</b> <i>Nekrasov S. (Thermo Fisher Scientific)</i></p>
	<p><b>PCR on the way to ensuring the traceability of DNA measurement results</b> <i>Vonsky M.S. (Institute of Cytology, St. Petersburg)</i></p>

<b>Hall 3</b>	
<b>16.15 - 18.30</b>	<b>PROBLEMS OF REPRODUCTION. MODERN REPRODUCTIVE TECHNOLOGIES</b> <b>Chairpersons:</b> <i>Saifitdinova A.F., Fedorova E.M., Petrin A.N.</i>
<b>16.15 - 16.35</b>	<b>Genetic factors of human reproduction disorders</b> <i>Petrin A.N. (Moscow)</i>
<b>16.35 - 16.55</b>	<b>Methods of assisted reproductive technologies in IVF clinics</b> <i>Bichevaya N.K. (International Centre for Reproductive Medicine, St. Petersburg)</i>
<b>16.55 - 17.15</b>	<b>Progress of preimplantation genetic testing methods</b> <i>Saifitdinova A.F. (St. Petersburg State University, International Centre for Reproductive Medicine, St. Petersburg)</i>
<b>17.15 - 17.30</b>	<b>The use of molecular cytogenetic methods for the diagnosis of complicated cases of human karyotype anomalies</b> <i>Pendina A.A. (Research Institute of Obstetrics, Gynecology and Reproductology n.a. D.O. Ott)</i>
<b>17.30 - 17.45</b>	<b>Comparative cytogenetic analysis of the chorion in an undeveloped pregnancy that occurred naturally and with the use of assisted reproductive technologies</b> <i>Efimova O.A. (Research Institute of Obstetrics, Gynecology and Reproductology n.a. D.O. Ott, St. Petersburg)</i>
<b>17.45 - 18.00</b>	<b>Results of PGT-A by aCGH for women of advanced maternal age with many embryos</b> <i>Fedorova E.M., Shlykova S.A., Tatischeva Yu.A., Lapina E.N., Zaytseva O.G., Yanchuk T.V., Kalugina A.S. (AVA-PETER Clinic, St. Petersburg)</i>
<b>18.00 - 18.15</b>	<b>Was it time to supplement all cycles of IVF with preimplantation genetic testing?</b> <i>Kinunen A.A. (St. Petersburg Diagnostic Medical Genetics Centre, International Centre for Reproductive Medicine, St. Petersburg)</i>
<b>18.15 - 18.30</b>	<b>Clinical examples of the use of exomial sequencing in prenatal diagnosis of rare genetic diseases</b> <i>Shatalov P.A., Okuneva E.G. (Genotek, Pirogov Russian National Research Medical University, Moscow)</i>



<b>Hall 4</b>	
<b>16.15 - 18.30</b>	<b>MOLECULAR DIAGNOSTICS IN PULMONOLOGY AND ALLERGOLOGY. INNOVATIVE METHODS OF TREATMENT</b>  <b>Chairpersons:</b> <i>Starevskaya S.V., Vinogradova I.V., Orlov A.V.</i>
<b>16.15 - 16.45</b>	<b>Pulmonary surfactant for the prevention and treatment of critical conditions of newborns</b> <i>Vinogradova I.V. (Нижний Новгород), Rozenberg O.A. (St. Petersburg)</i>
<b>16.45 - 17.05</b>	<b>Modern methods of diagnosis and treatment of cystic fibrosis</b> <i>Orlov A.V. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>17.05 - 17.25</b>	<b>Deficiency of alpha-1-antitrypsin. Clinical and laboratory algorithm for diagnosis. Modern treatment</b> <i>Starevskaya S.V., Melnick S.I. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>17.25 - 17.45</b>	<b>Genetic mechanisms of steroid sensitivity in patients with bronchial asthma syndrome and chronic obstructive pulmonary disease</b> <i>Ulitina S.C., Mironova Zh.A., Vsevolodskaya E.I., Pchelina S.N., Gorbunkov S.D., Akopov A.L., Trofimova V.I. (Pavlov First Saint Petersburg State Medical University)</i>
<b>17.45 - 18.00</b>	<b>NGS in the diagnosis of cystic fibrosis. Clinical case</b> <i>Nikitina A.P. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>

## December 1

<b>Hall 1</b>	
<b>09.00 - 11.30</b>	<p><b>MASTER CLASS: HARMONIZATION OF STATISTICAL DESCRIPTIONS, TESTS AND PREDICTIONS IN MOLECULAR MEDICINE AND IN MEDICAL AND JUDICIAL GENETICS</b></p> <p><i>Master-class conducts Khromov-Borisov Nikita Nikolaevich</i></p>
<b>11.30 - 11.45</b>	<b>Coffee break</b>
<b>11.45 - 14.00</b>	<p><b>SYSTEMIC MOLECULAR MEDICINE OF GENETICALLY DEFINED DISEASES OF THE BRAIN</b></p> <p><b>Chairpersons:</b> <i>Vorsanova S.G., Iourov I.Y., Yurov Y.B.</i></p>
	<p><b>Genomic personalized medicine of genetically determined diseases of the brain</b> <i>Iourov I.Y., Vorsanova S.G., Yurov Y.B. (Pirogov Russian National Research Medical University, Mental Health Research Center, Russian Medical Academy of Postgraduate Education, Moscow)</i></p>
	<p><b>Cytogenomics of autistic disorders</b> <i>Kolotii A.D., Yurov Y.B Vorsanova S.G., Iourov I.Y. (Pirogov Russian National Research Medical University, Mental Health Research Center, Russian Medical Academy of Postgraduate Education, Moscow)</i></p>
	<p><b>Markers of the effectiveness of antipsychotics: genes of pharmacokinetic factors</b> <i>Nasyrova R.F., Andreev B.V., Mironov K.O., Shipulin G.A., Neznanov N.G.</i></p>
	<p><b>Interactive analysis of the consequences of variations in the number of copies of DNA sequences in children with autism and mental retardation</b> <i>Shmitova N.S., Zelenova M.A., Vorsanova S.G., Vasin K.S., Iourov I.Y.</i></p>
	<p><b>Mass spectrometric analysis of the protein composition of blood serums of children with autistic disorders</b> <i>Kaysheva A.L., Kopylov A.T., Pleshakova T.O., Vorsanova S.G., Yurov Y.B., Archakov A.I., Ivanov Yu.D.</i></p>
<b>14.00 - 14.30</b>	<b>Lunch</b>
<b>14.30 - 16.30</b>	<p style="text-align: center;"><b>EDUCATION COURSE: DIAGNOSTIC BIOINFORMATICS</b></p> <p><b>Chairpersons:</b> <i>Iourov I.Y., Vorsanova S.G., Yurov Y.B.</i></p>
	<p><b>Diagnostic bioinformatics in pediatrics. Using the <i>in silico</i> method in diagnostic practice</b> <i>Iourov I.Y. (Pirogov Russian National Research Medical University, Mental Health Research Center, Russian Medical Academy of Postgraduate Education, Moscow)</i></p>
	<p><b>Bioinformatic analysis of chromosome rearrangements</b> <i>Vasin K.S., Demidova I.A., Yurov Y.B. (Pirogov Russian National Research Medical University, Mental Health Research Center)</i></p>
	<p><b>Genomic and proteomic analysis of the chromosome Y (Yq11.223q11.23) fragmentation in a child with autism</b> <i>Kolotii A.D., Vasin K.S., Kurinnaia O.S., Vorsanova S.G. (Pirogov Russian National Research Medical University, Mental Health Research Center)</i></p>
	<p><b>Importance of interpretation (bioinformatic) technologies in cytogenetic practice</b> <i>Kravets V.S., Vorsanova S.G., Iourov I.Y. (Pirogov Russian National Research Medical University, Mental Health Research Center, Russian Medical Academy of Postgraduate Education, Moscow)</i></p>

	<p><b>Examples of application of bioinformatic technology in medical genetic practice</b>  <i>Bulatnikova M.A., Larionova V.I. (Pokrovsky stem cell bank, Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i></p>
	<p><b>Discussion</b></p>
<b>16.30-16.45</b>	<p><b>Coffee break</b></p>
<b>16.45 - 19.00</b>	<p><b>MOLECULAR NEUROLOGY OF CHILD AGE (NEUROMETHABAL DISEASES)</b>  <b>Chairpersons:</b>  <i>Schugareva L.M., Lazebnik T.A., Ledascheva T.A.</i></p>
	<p><b>Diagnosis and treatment of neurosurgical pathology in children with congenital diseases of metabolism</b>  <i>Kryukov E.Yu., Sotnikov S.A., Iova A.S., Garmashov Yu.A., Poteshkina O.V. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i></p>
	<p><b>Врожденные эпилепсии. Новый взгляд на пациента</b>  <i>Poteshkina O.V., Schugareva L.M.</i></p>
	<p><b>Congenital metabolic disorder of cobalamin and folic acid</b>  <i>Karaulova Yu.N. (City Children's Hospital № 1, St. Petersburg)</i></p>
	<p><b>Myopathy or myocardial dystrophy? Clinical case of Barth's syndrome</b>  <i>Alexeev I.G., Schugareva L.M. (City Children's Hospital № 1)</i></p>
	<p><b>The importance of methods of radiation diagnosis in congenital disorders of metabolism in children</b>  <i>Schugareva L.M., Trofimova T.N. (City Children's Hospital № 1, Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i></p>

<b>Hall 2</b>	
<b>09.00 - 11.30</b>	<b>MOLECULAR ONCOLOGY - I MOLECULAR MARKERS IN SCREENING AND DIAGNOSTICS OF ONCOLOGICAL DISEASES</b>
	<b>Chairperson:</b> <i>Barchuk A.A.</i>
<b>09.00 - 09.15</b>	<b>Why new tests for cancer screening do not work?</b> <i>Barchuk A.A. (Pirogov Russian National Research Medical University, Moscow)</i>
<b>09.15 - 09.30</b>	<b>Molecular tests in screening and diagnosis of prostate cancer</b> <i>Mikhailenko D.S. (Pirogov Russian National Research Medical University, Moscow)</i>
<b>09.30 - 09.45</b>	<b>Molecular tests in differential diagnosis of thyroid tumors</b> <i>Zaretsky A.P. (Pirogov Russian National Research Medical University, Moscow)</i>
<b>09.45 - 10.00</b>	<b>Liquid cytology and expression biomarkers in the diagnosis of precancerous changes in the cervical epithelium</b> <i>Melnikova N.V. (Russian Research Center of Rentgenology, Moscow)</i>
<b>10.00 - 10.15</b>	<b>Screening of hereditary cancer of the breast and ovaries in Russia: the desired and real</b> <i>Rumyantseva V.A. (Russian Research Center for Surgery n.a. academician B.V. Petrovsky, Moscow)</i>
<b>10.15 - 10.30</b>	<b>Clinical and molecular genetic screening of Russian patients with hereditary forms of colorectal cancer</b> <i>Tsukanov A.S. (State Scientific Center of Coloproctology n.a. A.N. Ryzhikh, Moscow)</i>
<b>10.30 - 10.45</b>	<b>Screening for colorectal cancer CSR: A molecular biologist's look</b> <i>Zaretsky A.P. (Mental Health Research Cente, Moscow)</i>
<b>10.45 - 11.00</b>	<b>Screening for colorectal cancer: A clinician's view</b> <i>Bashankaev B.N. (GMS Clinic, Moscow)</i>
<b>11.00 - 11.15</b>	<b>Liquid biopsy using NGS-sequencing: Application in oncology</b> <i>Natal'in P.B. (Thermo Fisher Scientific Russia, Moscow)</i>
<b>11.15 - 11.30</b>	<b>The use of drip digital PCR for the analysis of liquid biopsies in oncology</b> <i>Shnyreva A.A. (Bio-Rad Laboratories)</i>
<b>11.30 - 11.45</b>	<b>Coffee break</b>
<b>11.45 - 14.00</b>	<b>MOLECULAR ONCOLOGY - II MOLECULAR METHODS IN HEMOGEMATOLOGY</b>
	<b>Chairperson:</b> <i>Zaritsky A.Yu.</i>
<b>11.45 - 12.05</b>	<b>Editing the genome as an approach to therapy</b> <i>Petuhov A.V., Zaritsky A.Yu. (Almazov National Medical Research Centre, St. Petersburg)</i>
<b>12.05 - 12.25</b>	<b>Algorithm of molecular genetic diagnosis of acute myeloblastic leukemia in children</b> <i>Panferov A.V. (Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology, and Immunology, Moscow)</i>
<b>12.25 - 12.45</b>	<b>Molecular markers of hematopoietic stem cell transplantation efficiency</b> <i>Barchatov I.M. (Institute of Pediatric Hematology and Transplantology n.a. Raisa Gorbacheva, St. Petersburg)</i>

12.45 - 13.00	<b>Markers of neurotoxicity of chemotherapy in children with acute lymphoblastic leukemia</b> <i>Schugareva L.M. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
13.00 - 13.15	<b>Analysis of clonality of B- and T-lymphocyte populations in the diagnosis of lymphoproliferative diseases</b> <i>Chernyshova E.V. (Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology, and Immunology, Moscow)</i>
13.15 - 13.30	<b>Determination of the titer of anti-ALK antibodies in patients with ALK-positive lymphomas</b> <i>Raikina E.V. (Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology, and Immunology, Moscow)</i>
13.30 - 13.45	<b>The method of pyrosequencing in the diagnosis of myeloproliferative diseases</b> <i>Dunaeva E.A., Mironov K.O. (Central Research Institute of Epidemiology, Rospotrebnadzor, Moscow)</i>
13.45 - 14.00	<b>New molecular genetic solutions for diagnosis of hereditary pathologies, oncological and identification studies</b> <i>Timoshenko T.V. (InterL:abServic, Moscow)</i>
14.00 - 14.30	<b>Lunch</b>
14.30 - 16.30	<b>MOLECULAR ONCOLOGY - III ADVANCED TECHNOLOGIES IN MOLECULAR ONCOLOGY</b> <b>Chairperson:</b> <i>Zhukov N.V.</i>
14.30 - 15.00	<b>Modern oncology: Achievements, problems and unresolved issues that clinicians would like to receive answers from researchers</b> <i>Zhukov N.V. (Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology, and Immunology, Moscow)</i>
15.00 - 15.15	<b>Molecular immunology and tumor markers of a new type</b> <i>Belousov P.V. ( Institute of Molecular Biology n.a. V.A. Engelgardt, Moscow)</i>
15.15 - 15.30	<b>Study of adaptive immunity repertoires for diagnosis and treatment of malignant tumors</b> <i>Turchaninova M.V. (Shemyakin-Ovchinnikov Institute of bioorganic chemistry, Moscow)</i>
15.30 - 15.40	<b>Expression of E-cadherin and chemosensitivity of colorectal cancer cells</b> <i>Druzhkova I.N. (Nizhny Novgorod State Medical Academy, Nizhny Novgorod)</i>
15.40 - 16.00	<b>Successes and problems of gene-cellular approaches to immunotherapy of malignant tumors</b> <i>Larin S.S. (Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology, and Immunology, Moscow)</i>
16.00 - 16.20	<b>Multiparametric analysis of the response of experimental tumors to treatment using genetic sensors and optical imaging</b> <i>Shirmanova M.V., Zagainova E.V. (Nizhny Novgorod State Medical Academy, Nizhny Novgorod)</i>
16.20 - 16.30	<b>Discussion</b>
16.30 - 16.45	<b>Coffee break</b>
16.45 - 19.00	<b>MOLECULAR ONCOLOGY - IV ONCOLOGY IN CONTEXT OF CONTEMPORARY MOLECULAR GENETICS: PROBLEMS - SOLUTIONS - NEW PROBLEMS. DIALOGUE OF EXPERTS AND LISTENERS QUESTIONS</b> <b>Chairperson and Discussion moderator:</b> <i>Larionova V.I.</i>

16.45 - 16.50	<b>Introduction</b> <i>Larionova V.I. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
16.50 - 17.10	<b>Implementing cancer genomics in diagnostic settings in the Stockholm healthcare region</b> <i>Valtteri Wirta, PhD (Stockholm, Sweden)</i>
17.10 - 17.30	<b>Diagnosis of hereditary tumor syndromes: More than the definition of risks</b> <i>Zaretsky A.P. (Pirogov Russian National Research Medical University, Moscow)</i>
17.30 - 18.00	<b>Разбор клинических случаев</b> <i>Rumyantseva V.A. (ФГБУ «РНЦ РР» Минздрава России и ФГБУ «RUSSIAN RESEARCH CENTER FOR SURGERY N.A. ACADEMICIAN B.V.PETROVSKY им. акад. Б. В. Петровского» Минздрава России, Moscow)</i>
18.00 - 18.30	<b>Analysis of clinical cases</b> <i>Zaretsky A.P. (Pirogov Russian National Research Medical University, Moscow)</i>
18.30 - 19.00	<b>SESSION OF QUESTIONS AND ANSWERS. PANEL DISCUSSION</b>  To participate in the discussion, St. Petersburg Health Committee's main specialists of the in the areas of oncology, cytology, genetics and clinical laboratory diagnostics were invited  <b>Planned topics for discussion</b> <ul style="list-style-type: none"> <li>• NGS and other high resolution methods in oncology: what they give us today that they can give in the foreseeable future and what will never be given</li> <li>• The role of medical genetics and clinical bioinformatics in the interdisciplinary management of cancer patients</li> <li>• Diagnosis of hereditary tumor syndromes: More than the definition of risks</li> <li>• Unsolved problems of modern molecular oncology:           <ol style="list-style-type: none"> <li>a) «WET BENCH» problems: a small amount of materials, damage to DNA / RNA, heterogeneity</li> <li>b) «DRY BENCH» problems: data processing and interpretation of results</li> <li>c) Organizational and legal problems: equivalence,, COMPANION Dx, PУ, LDT, ONE-LAB-TESTs, prices and terms</li> </ol> </li> </ul>

<b>Hall 3</b>	
<b>09.00 - 11.30</b>	<p style="text-align: center;"><b>EDUCATION COURSE FOR CLINICIANS: DIAGNOSTICS AND TREATMENT OF DISORDERS OF LIPID EXCHANGE AND SYNTHESIS OF GIANT ACIDS. DISCUSSION OF CLINICAL CASES</b></p> <p><b>Chairpersons:</b> <i>Leontieva I.V., Larionova V.I., Maliavskaya S.I., Scherbakova M.Yu.</i></p>
<b>09.00 - 09.20</b>	<p><b>Metabolic and molecular basis of violations of lipid metabolism and bile acids. Age aspects of the pathology</b> <i>Larionova V.I. (Northwestern State Medical University n.a. I.I. Mechnikov)</i></p>
<b>09.20 - 09.40</b>	<p><b>Modern ideas about the diagnosis and tactics of conducting children with familial hypercholesterolemia</b> <i>Leontieva I.V. (Moscow)</i></p>
<b>09.40 - 10.00</b>	<p><b>Differential diagnosis of lipid disorders in children</b> <i>Scherbakova M.Yu. (Peoples' Friendship University of Russia, Moscow)</i></p>
<b>10.00 - 10.20</b>	<p><b>Laboratory biochemical markers of lipid metabolism disorders. Modern solutions by Randox Laboratories</b> <i>Shipilov V.N.</i></p>
<b>10.20 - 10.40</b>	<p><b>Exclusion of hepatitis as the next step in differential diagnosis</b> <i>Rogozina N.V. (Children's research and clinical center of infectious diseases, St. Petersburg)</i></p>
<b>10.40 - 11.00</b>	<p><b>Metabolic bases of gallbladder diseases in children</b> <i>Kharitonova L.A. (Moscow)</i></p>
<b>11.00 - 11.20</b>	<p><b>Metabolic syndrome in children</b> <i>Maliavskaya S.I. (Northern State Medical University, Arkhangelsk)</i></p>
<b>11.20 - 11.30</b>	<p><b>Concluding remarks</b> <i>Larionova V.I. (Northwestern State Medical University n.a. I.I. Mechnikov)</i></p>
<b>11.30 - 11.45</b>	<b>Coffee break</b>
<b>11.45 - 14.00</b>	<p style="text-align: center;"><b>MOLECULAR CARDIOLOGY</b></p> <p><b>Chairpersons:</b> <i>Berkovich O.A., Kostareva A.A., Leontieva I.V.</i></p>
<b>11.45 - 12.05</b>	<p><b>Lysosomal storage diseases: a view of a cardiologist</b> <i>Kotlukova N.P. (Moscow)</i></p>
<b>12.05 - 12.25</b>	<p><b>Hypertrophic cardiomyopathy, diagnosis, prognosis, prevention of sudden cardiac death</b> <i>Leontieva I.V. (Moscow)</i></p>
<b>12.25 - 12.35</b>	<p><b>Geophenotypic spectrum of PACoпaтии caused by new and well-studied mutations in the genes of the RAS signaling cascade</b> <i>Vershinina T.L., Melnik O. V., Laevets T. S., Yakovleva E. V., Pervunina T.M., Vasichkina E. S. (Almazov National Medical Research Centre, St. Petersburg)</i></p>
<b>12.35 - 12.45</b>	<p><b>Structural and functional disturbances of the ion channel Nav 1.5 in patients with hereditary arrhythmogenic syndromes</b> <i>Zaitseva A. A., Khudyakov A.A., Malashicheva A.B., Kostareva A.A. (Almazov National Medical Research Centre, St. Petersburg)</i></p>
<b>12.45 - 13.00</b>	<p><b>Expression of the leptin gene in epicardial adipose tissue in men with ischemic heart disease</b> <i>Polyakova E.A., Draganova A.C., Kolodina D.A., Nifontov S.E., Miroshnikova V.V., A.A., Pobozheva I.A., Razgildina N.D., Nemkov A.S., Maslevtsov D.V., Galkina O.V., Belyaeva O.D., Pchelina S.N., Berkovich O.A., Baranova E.I. (Pavlov First Saint Petersburg State Medical University, B.P. Konstantinov Petersburg Institute of Nuclear Physics, St. Petersburg)</i></p>

13.00 - 13.15	<b>Features of tissue-specific expression of cholesterol metabolism genes in adipose tissue in obesity, metabolic syndrome and coronary heart disease</b> <i>Miroshnikova V.V., Panteleeva A.A., Pobozyeva I.A., Razgildina N.D., Polyakova E.A., Бровин Д.Л., Bazhenova E.A., Belyaeva O.D., Berkovich O.A., Baranova E.I., Pchelina S.N. (Pavlov First Saint Petersburg State Medical University, B.P. Konstantinov Petersburg Institute of Nuclear Physics, St. Petersburg)</i>
13.15 - 13.30	<b>Dynamic monitoring of patients with ischemic heart disease</b> <i>Ionova Zh.I., Pchelina S.N., Polyakova E.A. Sergeeva E.G., Berkovich O.A. (Pavlov First Saint Petersburg State Medical University, B.P. Konstantinov Petersburg Institute of Nuclear Physics, St. Petersburg)</i>
13.30 - 13.45	<b>Polymorphism of the adiponectin gene, adiponectin levels and the risk of metabolic cardiovascular syndrome in patients with abdominal obesity</b> <i>Brovin D.L., Belyaeva O.D., Pchelina S.N. (Pavlov First Saint Petersburg State Medical University B.P. Konstantinov, Petersburg Institute of Nuclear Physics, St. Petersburg)</i>
13.45 - 13.55	<b>FTO gene association with the phenotype of metabolic-healthy obesity</b> <i>Boyarinova M.A., Rotar O.P., Konrady A. O. (Almazov National Medical Research Centre, St. Petersburg)</i>
14.00 - 14.30	<b>Lunch</b>
14.30 - 16.30	<b>MOLECULAR OPHTHALMOLOGY (PART 1) (WEBINAR, DIRECT INTERNET TRANSLATION)</b>
14.30 - 14.50	<b>Opening, presentation of the speakers</b>
14.50 - 15.30	<b>Clinical and genetic features of hereditary pathology of the organ of vision and the possibilities of modern molecular genetics in diagnosis, prevention, determination of the tactics of treating the pathology of the organ of vision in hereditary syndromes and diseases</b> <i>Khlebnikova O.V. (Medical Genetics Research Center, Moscow)</i>
15.30 - 15.40	<b>Congenital anomalies of the optic nerve: interpretation, diagnosis, systemic associations, tactics of reference</b> <i>Mosin I.M. (Russian Medical Academy of Continuous Professional Education, Moscow)</i>
15.40 - 15.50	<b>Surgical treatment of hereditary and congenital anomalies of the optic nerve and retina disk</b> <i>Bayborodov Ya.V. (S. Fyodorov Eye Microsurgery Federal State Institution, St. Petersburg)</i>
15.50 - 16.00	<b>Fabry's disease and other hereditary metabolic diseases through the eyes of an ophthalmologist</b> <i>Rudnik A.Yu. (Pirogov Russian National Research Medical University, Moscow, Kirov Military Medical Academy, St. Petersburg)</i>
16.00 - 16.10	<b>Pathology of the organ of vision and mutation of the mitochondrial genome</b> <i>Sharkova I.V., Khlebnikova O.V., Dadali E.L. (Medical Genetics Research Center, Moscow)</i>
16.10 - 16.20	<b>Pathophysiology and genetics of central serous chorioretinopathy</b> <i>Maltsev D.S. (Kirov Military Medical Academy, St. Petersburg)</i>
16.20 - 16.30	<b>Discussion</b>
16.30 - 16.45	<b>Coffee break</b>
16.45 - 19.00	<b>MOLECULAR OPHTHALMOLOGY (PART 2) (WEBINAR, DIRECT INTERNET TRANSLATION)</b>
16.45 - 17.05	<b>Clinical diagnostic algorithm of hereditary and congenital diseases in the practice of an ophthalmologist</b> <i>Rudnik A.Yu. (Pirogov Russian National Research Medical University, Moscow; Kirov Military Medical Academy, St. Petersburg)</i>



<b>17.05 - 17.20</b>	<b>Familial exudative vitreoretinopathy: clinical manifestations and results of treatment</b> <i>Kogoleva L.V. (Moscow Research Institute of Eye Diseases n.a. Helmholtz)</i>
<b>17.20 - 17.30</b>	<b>Early detection of congenital pathology in neonatal screening in the perinatal center</b> <i>Astasheva I.B., Guseva M.R., Kuznetsova Yu.D., Pavlyuk E.Yu., Tumasyan E.A. (Pirogov Russian National Research Medical University, Moscow)</i>
<b>17.30 - 17.40</b>	<b>Genetic markers associated with primary corneal endothelial dystrophy (Fuchs): a review and practical experience</b> <i>Skorodumova L.O., Antonova O.P., Belodedova A.V., Selezneva O.V., Dailenko S.A., Akopyan T.A., Sharova E.I., Kostryukova E.S., Malyugin B.E. (Federal Research and Clinical Center for Physical and Chemical Medicine, S. Fyodorov Eye Microsurgery Federal State Institution, Moscow)</i>
<b>17.40 - 17.50</b>	<b>Genetic aspects of pathogenesis and treatment of glaucoma in children with anterior segment anomaly (Axenfeld-Rieger syndrome)</b> <i>Kuznetsova Yu.D., Astasheva I.B., Khatsenko I.E. (Russian Children's Clinical Hospital, Moscow; Pirogov Russian National Research Medical University, Moscow)</i>
<b>17.50 - 18.00</b>	<b>Sjögren's syndrome: clinical diagnostic criteria and treatment</b> <i>Pavlova T.V. (Pirogov Russian National Research Medical University, Moscow)</i>
<b>17.50 - 18.00</b>	<b>The practical importance of DNA diagnosis in patients with retinoblastoma</b> <i>Ushakova T.L. (National Medical Research Center of Oncology n.a. N.N. Blokhin)</i>
<b>18.10 - 18.20</b>	<b>Modern possibilities of DNA-diagnostics of retinoblastoma</b> <i>Alexeeva E.A. (Medical Genetics Research Center, Moscow)</i>
<b>18.20 - 18.30</b>	<b>Molecular genetic and clinical-pathomorphological prognostic criteria for uveal melanoma</b> <i>Tsygankov A.Yu. (Moscow Research Institute of Eye Diseases n.a. Helmholtz)</i>
<b>18.30 - 19.00</b>	<b>Discussion</b>

<b>Hall 4</b>	
<b>11.30 - 11.45</b>	<b>Lunch</b>
<b>11.45 - 14.00</b>	<b>TOPICAL ISSUES OF NUTRICIOLOGY AND HEALTH CARE</b> <b>Chairpersons:</b> <i>Maliavskaya S.I., Melnikova I.Yu., Ntrebenko O.K., Khoroshilov I.E.</i>
<b>11.45 - 12.15</b>	<b>Nutrition programming is the foundation of children's health. The genome, epigenome, microbiome</b> <i>Melnikova I.Yu. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>12.15 - 12.40</b>	<b>Epigenetic elements and programming mechanisms</b> <i>Ntrebenko O.K. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>12.40 - 13.00</b>	<b>The role of L-carnitine as a metabolic drug</b> <i>Khoroshilov I.E. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>13.00 - 13.20</b>	<b>Results of audits of alimentary dependent diseases in children in Arkhangelsk</b> <i>Maliavskaya S.I. (Arkhangelsk)</i>
<b>13.20 - 14.00</b>	<b>Discussion</b>
<b>14.00 - 14.30</b>	<b>Lunch</b>
<b>14.30 - 16.30</b>	<b>MOLECULAR PSYCHIATRY: INTERDISCIPLINARY VECTOR OF DEVELOPMENT. PART 1</b> <b>Chairpersons:</b> <i>Neznanov N.G., Klyushnik T.P., Shmukler A.B., Mazo G.E., Kibitov A.O.</i>
<b>14.30 - 14.50</b>	<b>Depression and risk of development of somatic diseases</b> <i>Neznanov N.G., Mazo G.E. (St. Petersburg)</i>
<b>14.50 - 15.10</b>	<b>Immunophenotypes of mental disorders</b> <i>Klyushnik T.P. (Moscow)</i>
<b>15.10 - 15.30</b>	<b>Analysis of clinical data when conducting genetic research in psychiatry</b> <i>Shmukler A.B. (Moscow)</i>
<b>15.30 - 15.50</b>	<b>Pharmacogenetics and pharmacoepigenetics in psychiatry: in search of an individual balance of therapeutic and side effects of pharmacotherapy</b> <i>Kibitov A.O. (Moscow)</i>
<b>15.50 - 16.10</b>	<b>Potential molecular markers of schizophrenia: the search and the possibilities of clinical use</b> <i>Ivanova S.A. (Tomsk)</i>
<b>16.10 - 16.30</b>	<b>Olfactory neuroepithelium as a model for studying the molecular mechanisms of schizophrenia</b> <i>Golimbet V.E., Kondratiev N.V., Zelenova E.A. (Moscow)</i>
<b>16.30 - 16.45</b>	<b>Coffee break</b>
<b>16.45 - 19.00</b>	<b>MOLECULAR PSYCHIATRY: INTERDISCIPLINARY VECTOR OF DEVELOPMENT. PART 2</b> <b>Chairpersons:</b> <i>Gorobets L.N., Ivanova S.A., Larionova V.I., Kibitov A.O., Mazo G.E.</i>
<b>16.45 - 17.00</b>	<b>Pathobiochemical mechanisms of neurogenesis disturbance and development of neurodegeneration in depression</b> <i>Dubinina E.E. (St. Petersburg)</i>
<b>17.00 - 17.15</b>	<b>The role of biobanks in the coordination of wide-scale genetic research in psychiatry</b> <i>Glotov A.S. (St. Petersburg)</i>

<b>17.15 - 17.30</b>	<b>Tardive neuroleptic discinensions. Mechanisms for formation and strategies for pharmacological correction</b> <i>Zakharov D.V., Mikhaylov V.A., Khublarova L.A.</i>
<b>17.30 - 17.45</b>	<b>Indicators of cortisol and dehydroepiandrosterone-sulphate as potential biomarkers of effectiveness of antipsychotic therapy in patients with the first psychotic episode</b> <i>Gorobets L.N. (Moscow)</i>
<b>17.45 - 18.00</b>	<b>Personalized genomics of mental disorders: a systematic biological approach to the determination of molecular and cellular mechanisms of mental disorders</b> <i>Iourov I.Y. , Vorsanova S.G., Yurov Y.B. ( N.I. Pirogov Russian National Research Medical University, Ministry of Health of the Russian Federation, Mental Health Research Center, Russian Medical Academy of Postgraduate Education, Moscow)</i>
<b>18.00 - 18.15</b>	<b>The relationship of genetic polymorphisms that affect dopaminergic neurotransmission, attention characteristics, and executive functions in mentally healthy individuals and patients with schizophrenia</b> <i>Kirenskaya A.V., Storozhevz Z.I., Kibitov A.O. (Moscow)</i>
<b>18.15 - 18.30</b>	<b>Disorders of the single-carbon metabolism in schizophrenia - modern diagnostic capabilities and correction prospects</b> <i>Zhilyaeva T.V. (Nizhny Novgorod)</i>
<b>18.30 - 18.40</b>	<b>Microchips from the Affymetrix company for the diagnosis of diseases with mental retardation</b> <i>Kolobov A. (Helikon)</i>
<b>18.40 - 18.50</b>	<b>Metabolic and molecular genetic bases of hereditary metabolic diseases that occur with mental disorders (porphyria, homocystinuria, Fabry's disease, hyperphenylalanemia and other diseases)</b> <i>Larionova V.I., Mazo G.E. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>18.50 - 19.00</b>	<b>Treatment of therapeutic resistant depressions: Alice labyrinth, or how to find out if no exit</b> <i>Mazo G.E. (St. Petersburg)</i>

<b>Hall 5</b>	
<b>9.00 - 11.30</b>	<b>ACTUAL PROBLEMS OF MEDICAL AND SOCIAL EXPERTISE OF PATIENTS WITH RARE DISEASES (ANALYSIS OF MEDICAL AND EXPERT AND JUDICIAL PRACTICE, EXPERIENCE OF PATIENT ORGANIZATIONS)</b>
<b>11.30 - 11.45</b>	<b>Coffee break</b>
<b>11.45 - 14.00</b>	<p style="text-align: center;"><b>NGS IN THE PRACTICE OF THE DOCTOR. DISCUSSION OF CLINICAL CASES. SELECTING ALGORITHMS OF DIAGNOSTICS</b></p> <p><b>Chairpersons:</b> <i>Bashnina E.B., Volgina S.Ya., Vissarionov S.V., Glotov A.S., Luchaninova V.N.</i></p>
	<p><b>NGS technologies in the practice of nephrologist</b> <i>Shagam L.I. (Academician Yu.E. Veltishchev Research Clinical Institute of Pediatrics)</i></p>
	<p><b>NGS technologies in the practice of an endocrinologist. Analysis of clinical cases</b> <i>Glotov A.S., Bashnina E.B.</i></p>
	<p><b>Molecular technologies for diagnosis of hereditary diseases with skeletal damage. Analysis of clinical cases</b> <i>Nikitina A.P., Kenis V.M., Bulatnikova M.A., Vasilishina A.A (Scientific Research Children's Orthopedic Institute n.a. G.I. Turner, St. Petersburg, Pokrovsky stem cell bank, St. Petersburg)</i></p>
	<p><b>Clinical sequencing of the genome in the diagnosis of hereditary diseases</b> <i>Shatalov P.A., Okuneva E.G. (OOO Genotek, N.I. Pirogov Russian National Research Medical University, Moscow)</i></p>
	<p><b>Features of genetic diagnosis of Alport syndrome in the Russian population</b> <i>Shagam L.I., Axenova M.E., Sukhorukov V.S., Dlin V.V. (Academician Yu.E. Veltishchev Research Clinical Institute of Pediatrics, N.I. Pirogov Russian National Research Medical University, Moscow)</i></p>
	<b>Difficult diagnosis in the practice of a doctor. Analysis of clinical cases</b>
<b>14.00 - 14.30</b>	<b>Lunch</b>
<b>14.30 - 16.30</b>	<b>MEDICAL GENETICS OF LENINGRAD-ST. PETERSBURG IN THE PERSONS. PRESENT AND FUTURE</b>
	<p><b>Chairpersons:</b> <i>Kharchenko T.V., Kuznetsova T.V., Baranov V.S.</i></p>
<b>14.30 - 14.50</b>	<p><b>The history of the development of practical genetics in Leningrad</b> <i>Romanenko O.P. (St. Petersburg Diagnostic Medical Genetics Centre)</i></p>
<b>14.50 - 15.10</b>	<p><b>The role of the Department of Medical Genetics of LenGIDUV-SPbMAPO -Northwestern State Medical University n.a. I.I. Mechnikov in the development of clinical genetics in Russia</b> <i>Kharchenko T.V. (Northwestern State Medical University named after I.I. Mechnikov)</i></p>
<b>15.10 - 15.25</b>	<p><b>Evolution of prenatal diagnosis in St. Petersburg. A stormy start and a happy ending</b> <i>Kuznetsova T.V., Kascheeva T.K. (Research Institute of Obstetrics, Gynecology and Reproductology n.a. D.O. Ott, St. Petersburg)</i></p>
<b>15.25 - 15.40</b>	<p><b>The possibilities of prenatal diagnosis on the basis of Maternity Hospital № 7</b> <i>Laptiev S.A., Selivanov M.M. (Maternity Hospital № 7, St. Petersburg)</i></p>
<b>15.40 - 15.50</b>	<p><b>Possibilities of genetic research in the Center of Fetal Medicine</b> <i>Nekrasova E.S.</i></p>
<b>15.50 - 16.00</b>	<p><b>Opportunities of the genetic laboratory at the ART clinic</b> <i>Viatkina S.B.</i></p>

<b>16.15 - 16.30</b>	<b>Genetic research in the clinic "AVA-Peter"</b> <i>Fedorova E.M., Davydov-Sinitsyn A.P. (AVA-PETER Clinic, St. Petersburg)</i>
<b>16.30 - 16.45</b>	<b>Coffee break</b>
<b>16.45 - 19.00</b>	<b>MEDICAL GENETICS OF LENINGRAD-ST. PETERSBURG IN THE PERSONS. PRESENT AND FUTURE</b> <b>Chairpersons:</b> <i>Kharchenko T.V., Martynkevich I.S.</i>
<b>16.45 - 17.00</b>	<b>Integration capabilities in the conduct of modern molecular genetic studies in St. Petersburg</b> <i>Glotov A.S., Glotov O.S., Serebriakova E.A., Pimenov A.</i>
<b>17.00 - 17.15</b>	<b>Laboratory of radiation and oncological genetics russian scientific center for radiology and surgical technologies n.a. academician A. M. Granov (past and present)</b> <i>Vorobtsova I.E. (Russian Scientific Center for Radiology and Surgical Technologies n.a. Academician A. M. Granov, St. Petersburg)</i>
<b>17.15 - 17.30</b>	<b>Russian Center for Emergency and Radiation Medicine n.a. A.M. Nikiforov: genetic diagnosis and biodosimetry</b> <i>Neronova E.G. (All-Russian Center for Emergency and Radiation Medicine n.a. A.M. Nikiforov of EMERCOM of Russia, St. Petersburg)</i>
<b>17.30 - 17.45</b>	<b>Organization of the work of the medical and genetic service of the Leningrad Region</b> <i>Kekeeva T.N.</i>
<b>17.45 - 18.00</b>	<b>Experience of the cytogenetics laboratory of the Research Institute of Pediatric Oncology, Hematology and Transplantation n.a. R.M. Gorbacheva</b> <i>Gindina T.L. (Institute of Pediatric Hematology and Transplantology n.a. Raisa Gorbacheva)</i>
<b>18.00 - 18.15</b>	<b>From standard cytogenetics to molecular technologies in the Laboratory of Molecular Genetics at RRIHT</b> <i>Martynkevich I.S. (Russian Research Institute of Hematology and Transfusiology)</i>
<b>18.15 - 18.30</b>	<b>The main directions of molecular genetic diagnosis in the Pokrovsky bank of stem cells</b> <i>Kotelevskaya E.A., Vasilishina A.A., Bulatnikova M.A. (Pokrovsky stem cell bank, St. Petersburg)</i>
<b>18.30 - 18.45</b>	<b>The possibilities of molecular diagnostics in Almazov National Medical Research Centre</b> <i>Kostareva A.A. (Almazov National Medical Research Centre, St. Petersburg )</i>

## December 2

### United Hall 1-4

United Hall 1-4	
<b>9.00 - 11.00</b>	<b>PLENARY SESSION 3</b>
<b>9.00 - 9.20</b>	<b>Personalized medicine as the priority of today</b> <i>Imanitov E.N. (St. Petersburg)</i>
<b>9.20 - 9.40</b>	<b>New opportunities in the molecular diagnostics and treatment of neurodegenerative diseases</b> <i>Illarioshkin S.N. (Moscow)</i>
<b>9.40 - 10.00</b>	<b>Implementing whole genome sequencing-based diagnostics for inherited metabolic disorders in a nationwide setting</b> <i>Valtteri Wirta, PhD (Stockholm, Sweden)</i>
<b>10.00 - 10.20</b>	<b>A single mechanism of peptide regulation of gene expression, protein synthesis, and an increase in the life of organisms in nature</b> <i>Khavinson V.K.</i>
<b>10.20 - 10.40</b>	<b>Editing the genome: perspectives and boundaries for the treatment of hereditary diseases</b> <i>Lebedev I.N. (Institute of Medical Genetics, Tomsk National Research Medical Center, Tomsk)</i>
<b>10.40 - 11.00</b>	<b>Modern medical genetics. Main achievements, old and new problems</b> <i>Baranov V.S. (Research Institute of Obstetrics, Gynecology and Reproductology n.a. D.O. Ott, St. Petersburg)</i>
<b>11.00 - 11.30</b>	<b>Coffee break</b>

<b>Hall 1</b>	
	<b>MOLECULAR NEUROLOGY</b>
<b>11.30 - 14.00</b>	<b>Chairpersons:</b> <i>Illarioshkin S.N., Melnikova E.V., Pchelina S.N.</i>
<b>11.30- 11.50</b>	<b>Huntington horea: molecular diagnostics and the possibilities of pharmacotherapy with inhibitors VMAT2</b> <i>Ivanov M.V., Nazarov V.D., Khalchitsky S.E. (St. Petersburg V.M. Bekhterev Psychoneurological Research Institute, St. Petersburg)</i>
<b>11.50- 12.10</b>	<b>Molecular mechanisms of the development of Parkinson's disease associated with mutations in the gene for glucocerebrosidase</b> <i>Pchelina S.N. (Pavlov First Saint Petersburg State Medical University, B.P. Konstantinov Petersburg Institute of Nuclear Physics, St. Petersburg Institute of Experimental Medicine)</i>
<b>12.10 -12.25</b>	<b>Prospects for the use of fullerenols as neuroprotective drugs</b> <i>Bolshakova O.I., Szhogina A.A., Suyasova M.V., Slobodina A.D., Timoshenko S.I., Sarantseva S.V. (B.P. Konstantinov Petersburg Institute of Nuclear Physics, St. Petersburg)</i>
<b>12.25 -12.40</b>	<b>Change in the expression profile in brain regions of mice with MPTP-induced models of Parkinson's disease</b> <i>Руденок М.М. (Institute of Molecular Genetics, Moscow)</i>
<b>12.40 - 12.55</b>	<b>Comprehensive evaluation of the intrathecal immune response in multiple sclerosis</b> <i>Moshnikova A.N., Nazarov V.D., Lapin S.V. (Pavlov First Saint Petersburg State Medical University)</i>
<b>12.55-13.10</b>	<b>Neuroimmunological disorders in autoimmune encephalitis</b> <i>Skulyabin D.I., Bardakov S.N., Totolyan N.A., Lapin S.V. (Kirov Military Medical Academy, Pavlov First Saint Petersburg State Medical University, St. Petersburg)</i>
<b>13.10- 13.25</b>	<b>The level of vitamin D supply in patients with multiple sclerosis</b> <i>Shmonina I.A., Karonova T.L., Totolyan N.A. (Pavlov First Saint Petersburg State Medical University, Almazov National Medical Research Centre, St. Petersburg)</i>
<b>13.25-13.45</b>	<b>40 Microchips from the Affymetrix company for the diagnosis of diseases with diseases of the nervous system and psyche</b> <i>Kolobov A. (Helikon)</i>
<b>13.45 - 14.00</b>	<b>Comprehensive assessment of genetic risk factors for ischemic stroke</b> <i>Mironov K.O., Korchagin V.I. (Moscow)</i>
<b>14.00 - 14.30</b>	<b>Lunch</b>
<b>14.30 - 16.30</b>	<b>METABOLIC MARKERS AND MOLECULAR TECHNOLOGIES IN NEUROLOGY PRACTICE</b> <b>Chairpersons:</b> <i>Rudenko D.I., Ledascheva T.A., Melnikova E.V.</i>
<b>14.30 - 14.50</b>	<b>Hyperphenylalanemia. Metabolic and molecular genetic bases. Secondary hyperphenylalanemia. Laboratory diagnostics</b> <i>Khalchitsky S.E., Shaposhnikov A.M. (Research Children's Orthopedic Institute n.a. G.I. Turner, St. Petersburg)</i>
<b>14.50 - 15.05</b>	<b>Neutral amino acids for the treatment of PKU and correction of secondary hyperphenylalanemia. When and whom to treat?</b> <i>Larionova V.I. (Northwestern State Medical University n.a. I.I. Mechnikov)</i>
<b>15.05 - 15.20</b>	<b>Therapy of PKU. Clinical and genetic aspects</b> <i>Liazina L.V. (St. Petersburg Diagnostic Medical Genetics Centre)</i>

<b>15.20 - 15.35</b>	<b>Genetic aspects of developmental delay and intellectual disabilities</b> <i>Nazarov V.D., Lapin S.V., Guzeva V.I. (Pavlov First Saint Petersburg State Medical University, St. Petersburg)</i>
<b>15.35 - 15.40</b>	<b>Modern diagnostic criteria for Rett syndrome in children</b> <i>Volgina S.Ya. (Kazan)</i>
<b>15.40 - 15.55</b>	<b>Fabry's disease: what the neurologist should know</b> <i>Shmonin A.A. (Pavlov First Saint Petersburg State Medical University, St. Petersburg)</i>
<b>15.55 - 16.10</b>	<b>Fabry's disease in clinical examples</b> <i>Udalova O.V. (MC «Генот», главный внештатный генетик ПФО)</i>
<b>16.10 - 16.30</b>	<b>Disturbances of the urea cycle. Demonstration of clinical cases</b> <i>Gladkova N.A. (St. Petersburg Diagnostic Medical Genetics Centre)</i>
<b>16.30 - 16.50</b>	<b>Neuronal lipofuscinosis. Demonstration of clinical cases</b> <i>Bulatnikova M.A. (St. Petersburg)</i>
<b>16.50 - 17.10</b>	<b>Modern possibilities of diagnosis of neuromuscular diseases</b> <i>Bardakov S.N., Lapin S.V. (Kirov Military Medical Academy, Pavlov First Saint Petersburg State Medical University, St. Petersburg)</i>



<b>Hall 2</b>	
<b>11.30 - 14.00</b>	<b>MOLECULAR ONCOLOGY - V MOLECULAR OPHTHALMONCOLOGY: WHAT TO DO WITH OUTERAL MELANOMA</b>  <b>Chairpersons:</b> <i>Demidov L.V., Larionova V.I.</i>
<b>11.30 - 11.40</b>	<b>Introduction</b> <i>Demidov L.V. (National Medical Research Center of Oncology n.a. N.N. Blokhin, Moscow)</i>
<b>11.40 - 12.00</b>	<b>Molecular tests for uveal melanoma: Ophthalmologist's view</b> <i>Grishina E.E. (Moscow Regional Scientific Research Clinical Institute n.a. M.F. Vladimirsky, Moscow)</i>
<b>12.00 - 12.20</b>	<b>Molecular tests for uveal melanoma: A look of the clinical oncologist</b> <i>Protsenko S.A. (N.N. Petrov NMRC of Oncology, St. Petersburg)</i>
<b>12.20 - 12.40</b>	<b>Molecular tests for uveal melanoma: A glance of a molecular biologist</b> <i>Zaretsky A.P. (Pirogov Russian National Research Medical University, Moscow)</i>
<b>12.40 - 13.00</b>	<b>Discussion Topic No. 1: "Prognostic" biopsy with organ-preserving treatment of uveal melanoma</b> <i>Yarovaya V.A. (S. Fyodorov Eye Microsurgery Federal State Institution, Moscow)</i>
<b>13.00 - 13.20</b>	<b>Discussion Topic No. 2: What to do after radical treatment of uveal melanoma</b> <i>Nazarova V.V. (National Medical Research Center of Oncology n.a. N.N. Blokhin, Moscow)</i>
<b>13.20 - 13.40</b>	<b>Discussion Topic No. 3: Is an effective locoregional treatment of metastatic uveal melanoma possible?</b> <i>Kosyrev V.Yu. (National Medical Research Center of Oncology n.a. N.N. Blokhin, Moscow)</i>
<b>13.40 - 13.55</b>	<b>Discussion</b>
<b>13.55 - 14.00</b>	<b>Summarizing</b> <i>Demidov L.V. (National Medical Research Center of Oncology n.a. N.N. Blokhin, Moscow)</i>
<b>14.00 - 14.30</b>	<b>Lunch</b>
<b>14.30 - 19.00</b>	<b>MOLECULAR ONCOLOGY - VI MOLECULAR TESTS IN INDIVIDUALIZATION OF TREATMENT OF SOLID TUMORS</b>  <b>Chairpersons:</b> <i>Semiglazova T.Yu., Demidov L.V., Zhukov N.V.</i>
<b>14.30 - 14.50</b>	<b>Achievements and problems of modern molecular testing from the point of view of a clinical oncologist</b> <i>Semiglazova T.Yu. (Mental Health Research Center, St. Petersburg)</i>
<b>14.50 - 15.10</b>	<b>Heterogeneity of molecular genetic markers in oncology and prospects for their use in clinical practice</b> <i>Zhabina A.S. (St. Petersburg Clinical Research and Practical Center for Specialized Health Care (Oncology), St. Petersburg)</i>
<b>15.10 - 15.30</b>	<b>Primary and acquired tumor resistance to therapy: Mechanisms and general patterns</b> <i>Demidova I.A. (Moscow City Oncological Hospital No. 62, Moscow)</i>
<b>15.30 - 15.50</b>	<b>The role of molecular testing in modern pediatric oncology</b> <i>Belogurova M.B. (City children's clinical hospital No 31, St. Petersburg)</i>

<b>15.50 - 16.10</b>	<b>Results of treatment of medulloblastoma in children depending on the molecular group</b> <i>Zheludkova O.G. (Russian Scientific Center of Roentgenology, Moscow)</i>
<b>16.30 - 16.40</b>	<b>Coffee break</b>
<b>16.40 - 17.00</b>	<b>Molecular targets of modern drug therapy for skin melanoma</b> <i>Protsenko S.A. (Mental Health Research Center, St. Petersburg)</i>
<b>17.00 - 17.20</b>	<b>Prospects of molecular-directed therapy in patients with non-small cell lung cancer</b> <i>Reutova E.V. (National Medical Research Center of Oncology n.a. N.N. Blokhin, Moscow)</i>
<b>17.20 - 17.30</b>	<b>Practical aspects of ROS1-testing for non-small cell lung cancer</b> <i>Gikalo M.B. (Moscow Oncological Hospital 62)</i>
<b>17.30 - 17.40</b>	<b><i>In situ</i> hybridization method (ISH). Diagnostic capabilities from the company Zyto Vision (Germany)</b> <i>Voitovich A.N. (OPTEC, St. Petersburg)</i>
<b>17.40 - 17.50</b>	<b>Reliable solutions for molecular oncology: microchips from the company Affymetrix</b> <i>Kolobov A. (Helikon, St. Petersburg)</i>
<b>17.50 - 18.10</b>	<b>Molecular mechanisms of modern antitumor immunotherapy</b> <i>Belousov P.V. (Institute of Molecular Biology n.a. V.A. Engelgardt, Moscow)</i>
<b>18.10 - 18.25</b>	<b>Prognostic value of the expression of cancer-testicular antigens in skin melanoma</b> <i>Utiashev I.A. (National Medical Research Center of Oncology n.a. N.N. Blokhin, Moscow)</i>
<b>18.25 - 18.40</b>	<b>Prognostic and predictive value of the expression of cancer-testicular antigens in soft tissue sarcomas</b> <i>Komarov Yu.I. (Mental Health Research Center, St. Petersburg)</i>
<b>18.40 - 19.00</b>	<b>Immunological effects of local effects on the tumor: Prospects of integration into modern approaches to cancer therapy</b> <i>Machak G.N. (National Medical Research Center of Traumatology and Orthopedics named after N.N. Priorov, Moscow)</i>

<b>Hall 3</b>	
<b>11.30 - 14.00</b>	<p style="text-align: center;"><b>EDUCATIONAL COURSE: HEREDITARY DISEASES IN THE PRACTICE OF ANESTHESIOLOGIST-REANIMATOLOGIST. EMERGENCY CONDITIONS IN RARE DISEASES</b></p> <p><b>Chairpersons:</b> <i>Gordeev V.I., Larionova V.I., Ironosov V.E., Alexandrovich Yu.S.</i></p>
<b>11.30 - 12.10</b>	<p><b>Hereditary metabolic diseases, which occur with acute clinical manifestations and metabolic crises. Diagnosis, treatment</b> <i>Larionova V.I. (Northwestern State Medical University n.a. I.I. Mechnikov)</i></p>
<b>12.10 - 12.40</b>	<p><b>Lysosomal diseases in the practice of anesthesiologist-resuscitator (MPS, Fabry's disease, Pompe's disease). Multidisciplinary approach in the diagnosis and treatment of patients. Assessment of the risk of anesthesia complications</b> <i>Ironosov V.E. (Institute of Experimental Medicine, St. Petersburg )</i></p>
<b>12.40 - 13.10</b>	<p><b>Diagnosis and intensive care of children with critical water-electrolyte balance disorders</b> <i>Alexandrovich Yu.S. (St. Petersburg State Pediatric University, St. Petersburg)</i></p>
<b>13.10 - 13.25</b>	<p><b>Assessment of the risk and complexity of perioperative management of patients with MPS</b> <i>Tretiakova A.N. (Russian Ilizarov Scientific Center for Restorative Traumatology and Orthopedics, Kurgan)</i></p>
<b>13.25 - 13.40</b>	<p><b>Malignant hyperthermia. Genetic markers, prevention. Modern treatment</b> <i>Ulrich G.E. (St. Petersburg State Pediatric University)</i></p>
<b>13.40 - 14.00</b>	<p><b>Anesthesiologic support of transplantation of fingers from tops to a brush with hereditary diseases of the hand</b> <i>Savenkov A.N. (Research Children's Orthopedic Institute n.a. G.I. Turner, St. Petersburg)</i></p>
<b>14.00 - 14.30</b>	<p><b>Lunch</b></p>
<b>14.30 - 16.30</b>	<p style="text-align: center;"><b>MEDICINE OF CRITICAL CONDITIONS: NEW LABORATORY MARKERS OF PATHOLOGY, SELECTION OF TREATMENT IN THE PRACTICE OF ANESTHESIOLOGIST AND RESUSCITATOR</b></p> <p><b>Chairpersons:</b> <i>Alexandrovich Yu.S., Lebedinsky K.M., Shliapnikov S.A.</i></p>
<b>14.30 - 14.50</b>	<p><b>Possibilities and realities of procalcitonin test for the diagnosis of infectious processes in OPIT</b> <i>Shliapnikov S.A., Naser N.R., Mikhelson E.P. (St. Petersburg)</i></p>
<b>14.50 - 15.10</b>	<p><b>Diagnosis and intensive care of children with critical water-electrolyte balance disorders</b> <i>Alexandrovich Yu.S. (St. Petersburg State Pediatric University)</i></p>
<b>15.10 - 15.30</b>	<p><b>The strategy of protecting the brain in newborns after perinatal asphyxia</b> <i>Odaj Joni (Tishreen University, Latakia, Syria)</i></p>
<b>15.30 - 15.50</b>	<p><b>Hyperammoniasis through the eyes of the reanimatologist. Diagnostics. Treatment</b> <i>Pshenishnov K.V. (St. Petersburg State Pediatric University)</i></p>
<b>15.50 - 16.30</b>	<p><b>Hyperammonemia as a marker of hereditary metabolic diseases and the cause of critical conditions</b> <i>Larionova V.I. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i></p> <p><b>Training to determine ammonia (screening method)</b></p>
<b>16.30 - 16.50</b>	<p><b>Diagnosis and treatment of acquired antithrombin III deficiency</b> <i>Zvereva E.S. (Shire Biotech Russ)</i></p>

<b>16.50 - 17.10</b>	<b>Possibilities of applying new laboratory tests for the diagnosis of sepsis in a resuscitation department. DNA-diagnostics of pathogens in sepsis</b> <i>Voytovich A.N. (OPTEC)</i>
<b>17.10 - 17.30</b>	<b>The use of integral methods for assessing hemostasis in emergency pediatric practice</b> <i>Soloviov O.N. (Novosibirsk TB Research Institute, Novosibirsk)</i>
<b>17.30 - 17.45</b>	<b>Availability of unregistered medicines in the Russian practice for the treatment of patients with rare diseases (malignant hyperthermia as an example)</b> <i>Tsypyshina A.V. (Farmamondo Vostok)</i>
<b>17.45 - 18.15</b>	<b>Mucopolysaccharidosis of Pompe disease in the practice of an anesthesiologist. Multidisciplinary approach</b> <i>Isaev K.A., Larionova V.I. (Pavlov First Saint Petersburg State Medical University, Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>

<b>Hall 4</b>	
<b>11.30 - 14.00</b>	<b>MULTIDISCIPLINARY ASPECTS OF SPORTS MEDICINE: FROM THE PHENOTYPE TO THE GENOTYPE</b>
	<b>Chairpersons:</b> <i>Lidov P.I., Gayduk A.A.</i>
<b>11.30 - 11.50</b>	<b>Experience in the use of non-radiation diagnostic methods for monitoring the rehabilitation of functional disorders of posture and feet in children and adolescents</b> <i>Gayduk A.A. Federal Scientific Center of Rehabilitation of the Disabled n.a. G.A. Albrecht</i>
<b>11.50 - 12.05</b>	<b>Мышечная ткань как эндокринный регулятор??</b> <i>Vasina A.Yu., Churilov L.P. (St. Petersburg)</i>
<b>12.05 - 12.20</b>	<b>Possibilities of instrumental methods for diagnosis of muscle and nerve pathology in sports medicine</b> <i>Imelbaev A. (St. Petersburg State Pediatric University)</i>
<b>12.20 - 12.50</b>	<b>Injury prevention with the help of analytic technologies</b> <i>Gijs Beenker (Netherlands)</i>
<b>12.05 - 13.05</b>	<b>Apropos questioning in the prevention of sudden cardiac death</b> <i>Larintseva O., Gavrilova E.A. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
<b>13.05 - 13.20</b>	<b>The use of cardiorespiratory training in athletes</b> <i>Ibragimova T. (Pavlov First Saint Petersburg State Medical University, St. Petersburg)</i>
<b>13.20 - 13.40</b>	<b>Biologically active additives in the prevention and rehabilitation of musculoskeletal system</b> <i>Kondratieva O.L. (Medical Center "Path to Health")</i>
<b>13.40 - 13.55</b>	<b>in sports medicine: dialogue of laboratory geneticists and doctors</b> <i>Glotov O.S. (St. Petersburg State University, St. Petersburg)</i>
<b>14.00 - 14.30</b>	<b>Lunch</b>
<b>14.30 - 16.30</b>	<b>NEW TECHNOLOGIES OF DIAGNOSTICS AND TREATMENT IN REHABILITATION MEDICINE</b>
	<b>Chairpersons:</b> <i>Melnikova E.V., Shmonin A.A., Sarana A.M., Suslova G.A.</i>
<b>14.30 - 15.00</b>	<b>New organizational model of medical rehabilitation in Russia: the possibilities of helping patients with hereditary diseases</b> <i>Melnikova E.V. (Pavlov First St. Petersburg State Medical University)</i>
<b>15.00 - 15.30</b>	<b>International classification of functioning as a tool for managing patients with hereditary diseases: the ICF-reader program</b> <i>Shmonin A.A. (Pavlov First Saint Petersburg State Medical University)</i>
<b>15.30 - 16.00</b>	<b>Ergotherapy for patients with orphan diseases</b> <i>Maltseva M.N. (Pavlov First Saint Petersburg State Medical University)</i>
<b>16.00 - 16.15</b>	<b>Biomechanical approach to the rehabilitation of patients with pathology of the musculoskeletal system. Modern methods of rehabilitation</b> <i>Yudakova V. («Reaclinic»)</i>
<b>16.15 - 16.30</b>	<b>Molecular basis for the rehabilitation of neurological diseases</b> <i>Makshakov G.S., Lapin S.V. (City center for the treatment of multiple sclerosis, Pavlov First Saint Petersburg State Medical University)</i>
<b>16.30 - 16.45</b>	<b>The use of чжэньцзю therapy for the treatment of polyneuroradiculopathy of complex genesis</b> <i>Wang Zhaoyang (Beijing University of Chinese Medicine, "Clinic of Traditional Oriental Medicine", St. Petersburg)</i>

<b>Hall 5</b>	
	<b>MOLECULAR DENTISTRY</b>
<b>11.30 - 14.00</b>	<b>Chairpersons:</b> <i>Silin A.V., Suvorov A.N.</i>
<b>11.30 - 12.00</b>	<b>Hereditary diseases in stomatology</b> <i>Petrin A.N. (Moscow)</i>
<b>12.00 - 12.30</b>	<b>Microbiota of the oral cavity</b> <i>Suvorov A.N.</i>
<b>12.30 - 13.00</b>	<b>Pathogens of the oral cavity diseases: molecular mechanisms of virulence</b> <i>Dmitriev A.V. (St. Petersburg)</i>
<b>13.00 - 13.20</b>	<b>Vitamin B and dental morbidity in children and adolescents. Who and when to treat?</b> <i>Maliavskaya S.I. (Arkhangelsk)</i>
<b>13.20 - 13.35</b>	<b>Fibrous dysplasia in dentist practice (clinical case)</b> <i>Uzunishvili I.M. (Bon Stom clinic, St. Petersburg)</i>
<b>13.35 - 14.00</b>	<b>Analysis of clinical cases</b> <i>Larionova V.I., Bulatnikova M.A., Kuzmina D.A.</i>
<b>14.00 - 14.30</b>	<b>Lunch</b>
	<b>MOLECULAR PHARMACOGENETICS AND MOLECULAR PHARMACOLOGY</b>
<b>14.30 - 16.30</b>	<b>Chairpersons:</b> <i>Sychev D.A., Lifshits G.I.</i>
<b>14.30 - 14.45</b>	<b>Determination of genetic polymorphisms by pyrosequencing in clinical practice and pharmacogenetic studies</b> <i>Dribnokhodova O.P., Mironov K.O. (Moscow)</i>
<b>14.45 - 15.00</b>	<b>Molecular markers in assessing the quality of thromboconcentrate - a step towards personalized transfusion therapy</b> <i>Sirotkina O.V., Kishenko V.V., Fedorov A.V., Kondratov K.A., Kolesov A.A., Golovkin A.S., Vavilova T.V.. (Almazov National Medical Research Centre, St. Petersburg)</i>
<b>15.00 - 15.15</b>	<b>Antiaggregant therapy in acute coronary syndrome in the Siberian population: the effect of poorly studied genetic markers</b> <i>Lifshits G.I. (Novosibirsk)</i>
<b>15.15 - 15.30</b>	<b>Influence of polymorphism of folate metabolism genes on the level of homocysteine and folate in the Arctic indigenous population in conditions of permanent island residence</b> <i>Vorobyova N.A., Vorobyova A.I., Yuriev N.A., Volokitina D.M. (Arkhangelsk)</i>
<b>15.30 - 15.45</b>	<b>Antipsychotic-induced weight gain: promising pharmacogenetic markers</b> <i>Nasyrova R.F., Neznanov N.G., Mironov K.O., Shipulin G.A.</i>
<b>15.45 - 16.00</b>	<b>Personalized approach to antipsychotic therapy: focus on peripheral blood lymphocytes</b> <i>Taraskina A.E., Zobotina A.M., Nasyrova R.F., Sosin D.N., Sosina K.A, Ershov E.E., Grunina M.N., Krupitsky E.M. (B.P. Konstantinov Petersburg Institute of Nuclear Physics, St. Petersburg, Pavlov First Saint Petersburg State Medical University, St. Petersburg V.M. Bekhterev Psychoneurological Research, Institute, St. Petersburg City Psychiatric Hospital No. 1 n.a. P.P. Kashchenko, St. Petersburg )</i>
<b>16.00 - 16.20</b>	<b>Forming competencies for physicians using pharmacogenetic testing to personalize patients' treatment</b> <i>Sychev D.A. (Russian Medical Academy of Continuous Professional Education, Moscow)</i>

16.20 - 16.30	<b>Discussion</b>
16.30 - 16.40	<b>Coffee break</b>
16.40 - 18.40	<b>CONFERENCE OF YOUNG SCIENTISTS</b>
16.40 - 16.50	<b>OPENING OF THE CONFERENCE</b>
16.50 - 17.05	<b>The role of clinical diagnostic methods in the formation of a preliminary diagnosis of hereditary disease</b> <i>Baboshina E.I. (Kirov Military Medical Academy, St. Petersburg)</i>
17.05 - 17.20	<b>Nieman-Pick disease, type C. Clinical case</b> <i>Udalova V.Yu. (Medical Genetics Research Center, Moscow, "GenoMed", Moscow)</i>
17.20 - 17.35	<b>Hereditary enzymopathy. The role of vitamins in the activation of enzymes (on the example of certain diseases)</b> <i>Khramtsova A.M. (Novgorod State University n.a. Jaroslav Mudry, Novgorod the Great)</i>
17.35 - 17.50	<b>Hypobetalipoproteinemia in children: diagnosis and clinical manifestations</b> <i>Alibekov E.R. (Northwestern State Medical University n.a. I.I. Mechnikov)</i>
17.50 - 18.05	<b>Disturbance of bile acid metabolism in hereditary diseases in children</b> <i>Eremenko E.D. (Northwestern State Medical University n.a. I.I. Mechnikov)</i>
18.05 - 18.20	<b>Bone dysplasia in hereditary diseases in children</b> <i>Lipina V.A. (Northwestern State Medical University n.a. I.I. Mechnikov)</i>
18.20 - 18.35	<b>Early diagnosis of neurodegenerative diseases in children (analysis of clinical cases)</b> <i>Kachanov D.A., Evstratova A.V. (Northwestern State Medical University n.a. I.I. Mechnikov, St. Petersburg)</i>
18.35 - 18.50	<b>Hypoplastic Anemia in Children: Early Diagnosis</b> <i>Yakovleva O.G. (Northwestern State Medical University n.a. I.I. Mechnikov)</i>
18.50 - 19.00	<b>CLOSING OF THE CONFERENCE</b>

<b>Computer class</b>	
11.15 - 14.00	<b>ROUND TABLE: BIOBANK. POOLING OF EFFORTS FOR SOLVING THE ACUTE PROBLEMS OF RIGHTS AND STANDARDIZATION</b> <b>Moderators:</b> <i>Glotov A.S., Glotov O.S., Ivanov D.V., Масленников А.Б.</i>
11.15 - 11.30	<b>The Russian Society of Specialists in Biobanking is a new development platform</b> <i>Muraviov A.I. (ROSBIO, St.Petersburg)</i>
11.30 - 11.45	<b>Ownership of bio-samples</b> <i>Vasilyev G.S. (St. Petersburg)</i>
11.45 - 12.00	<b>Legal regulation of biobanking in the context of providing biological Security</b> <i>Ivanov D.V. (St. Petersburg State University of Architecture and Civil Engineering)</i>
12.00 - 12.15	<b>What is the object of standardization in biobank?</b> <i>Glotov A.S. (St. Petersburg)</i>
12.15 - 12.30	<b>Standards for biobanking - the current situation in Russia and in the world</b> <i>Sivakova O.V., Belyaev V.E., Pokrovskaya M.S.</i>
12.30 - 12.45	<b>Electronic databases of biobanks - the pros and cons of ready solutions and the development of new platforms</b> <i>Zhabereva A.S. (St. Petersburg)</i>

12.45 - 13.00	<b>Biobanks of diseases and population biobanks - world experience and its adaptation to the conditions of Russia</b> <i>Prutsky V.Yu. (St. Petersburg)</i>
13.00 - 13.15	<b>Features of the organization and operation of biobank in the structure of a large clinic</b> <i>Glotov O.S. (St. Petersburg)</i>
13.15 - 13.30	<b>Problems and possible approaches in the storage of genetic data</b> <i>Maslennikov A.B. (Novosibirsk)</i>
13.30 - 13.45	<b>Education in the field of biobanking: problems and prospects</b> <i>Sukhorukov V.S., Voronkova A.S. (Moscow)</i>
13.45 - 14.00	<b>Issues of law and standardization of network biobanking in the Russian Federation</b> <i>Mozgovoy E.D. (St. Petersburg)</i>
	<b>Discussion, discussion of the resolution, adoption of the resolution</b>
14.00 - 14.30	<b>Lunch</b>
14.30 - 17.30	<b>EDUCATION COURSE ON BIOINFORMATICS FOR DOCTORS</b> <b>Mediator:</b> <i>Glotov A.S.</i>
14.30 - 14.50	<b>The concept of a modern molecular genetic laboratory</b> <i>Glotov A.S. (St. Petersburg State University; Research Institute of Obstetrics, Gynecology and Reproductology n.a. D.O. Ott, City hospital №40, St. Petersburg)</i>
14.50 - 15.30	<b>Lecture: Bioinformatics in Examples</b> <i>Lapidus A.L. (St. Petersburg State University)</i>
15.30 - 16.30	<b>Analysis of data of eccentric sequencing: problems and approaches to their solution.</b> <i>Barbitov Yu.A. (St. Petersburg State University; Bioinformatics Institute, St. Petersburg)</i>
16.30 - 17.30	<b>The role of medical genetic counseling before and after sequencing a new generation</b> <i>Serebryakova E.A. (St. Petersburg State University Research Institute of Obstetrics, Gynecology and Reproductology n.a. D.O. Ott, City hospital №40, St. Petersburg)</i>
	<b>Discussion</b>

<b>United Hall 1-4</b>	
18.40 - 19.00	<b>CLOSING OF THE CONGRESS, SUMMING UP OF THE RESULTS, APPROVAL OF THE CONGRESS RESOLUTION</b>