

RUSSIAN ACADEMY OF SCIENCES
RUSSIAN FOUNDATION FOR BASIC RESEARCH (RFBR)
LOMONOSOV MOSCOW STATE UNIVERSITY

PROGRAMME

3RD NATIONAL CONGRESS ON
REGENERATIVE MEDICINE

15-18 NOVEMBER 2017





Dear colleagues!

On behalf of the Russian Ministry of Health and on my own behalf, I cordially greet the participants and guests of the III National Congress on Regenerative Medicine. In the public health in Russia a lot of attention is paid to the development of new trends in medicine, operating by the most advanced achievements of medical science to develop safe and effective approaches to the treatment of serious human diseases. Significant expectations are associated with the progress in regenerative medicine, which provides a complete restoration of the structure and function of tissues and organs after damage or even the recreation of them with the use of tissue engineering approaches.

It is noteworthy that prominent Russian and foreign scientists and physicians will take part in the Congress. The extensive scientific program of the Congress will allow them to discuss the most challenging issues. The participants of the Congress will face very important tasks related to the discussing current achievements, unresolved problems, and the prospects for the development of regenerative medicine. Organizing a national scientific event of such a high level will open new opportunities for interaction of specialists in the field of regenerative medicine, will help to establish and maintain valuable scientific network and stimulate the translation of the most successful achievements of this new field of medicine into the clinical practice. I wish the participants and guests of the Congress a lot of health, prosperity, successful and fruitful work!

*Minister of Health of the Russian Federation,
RAS corresponding member Veronika I. Skvortsova*



Dear colleagues!

On behalf of the Presidium of the Russian Academy of Sciences (RAS), I congratulate you on the opening of the III National Congress on Regenerative Medicine, which is being held in the largest university of the country, Lomonosov Moscow State University, with the support of the Russian Foundation for Basic Research. There is no doubt that the search for fundamentally new approaches to the treatment of many serious diseases is necessary, and it is regenerative medicine aimed at the structural and functional restoration of damaged tissue and organs that can offer new effective solutions to these problems. The development of this field of medicine is envisaged, among other things, by the

Strategy of Scientific and Technological Development of our country for the coming years. Many institutes of the Russian Academy of Sciences are carrying out research devoted to the study of the fundamental mechanisms of regeneration and the possibilities of stimulating regenerative processes in tissues to create new approaches for treating various diseases. The most crucial task of the national scale is the establishment of productive interaction between scientists engaged in fundamental projects, researchers who develop new methods and products for therapeutic use on the basis of scientific data as well as experts involved in the development of regulatory documents and infrastructure environment critical for the development of regenerative medicine in the Russian Federation.

The scientific program of the Congress covers a wide range of issues, including practically all the key directions of regenerative medicine. Many problems are extremely complex, and their solution requires the integration of efforts by scientists of different specialties. It is great to note that researches and physicians from various scientific research institutions and centers will take part in the Congress. I am glad to see many outstanding representatives of the academic community among the participants of the Congress and I am sure that this unique scientific event in the field of regenerative medicine will help to join together the efforts of national and foreign scientists in the development of the most advanced approaches of modern medical science.

*Vice-president of RAS,
RAS academician Vladimir P. Chekhonin*

Dear colleagues!

We welcome all participants and guests of the III National Congress on Regenerative Medicine within the walls of Lomonosov Moscow State University! The organization of this scientific event is essential for the development of medical science in our country, in MSU is, in my opinion, absolutely reasonable. The distinguished status of the MSU allows and simultaneously obliges us to develop the most modern technologies and educational approaches for the training the national scientific elite, and at the same time MSU should serve as a consolidating center that creates the conditions for unification and interaction of intellectual leaders in the most advanced fields of science. Regenerative medicine is referred without doubt to such areas and often called the «medicine of the future».



Traditions of classical medical education and state-of-the-art medical science have been maintaining at MSU almost since the first day of its foundation. In 1992, the Faculty of Fundamental Medicine was reinstated in the University, where the research in the field of studying the mechanisms of tissue renewal and regeneration was started under the leadership of the Dean of the faculty, academician Vsevolod A. Tkachuk. Over the years, several interesting research projects in the field of regenerative medicine have been carried out at MSU in cooperation with other key research institutions, which have contributed to the development of regenerative medicine in Russia and to accelerate the translation of the most promising results into practical medicine. One of the last major projects was the development of national guidelines for preclinical studies of biomedical cell products, the first edition of which will be presented to all participants of the Congress.

I must proudly note that the first in Russia Institute of Regenerative Medicine was established in 2016 in the Medical Research and Educational Center of Moscow State University. We use all our experience, knowledge of our scientists, teachers, physicians and resources of MSU for the development of this field, prioritized for the interests of our country, which has absolutely unique opportunities and prospects for reaching a fundamentally new level by the national medicine.

This year the National Congress on Regenerative Medicine gathered an unprecedented number of participants from many regions of Russia and foreign countries. The scientific program of the Congress impresses with its wide scope and importance of the research topics. I am glad to note that within the Congress there will be meetings of the National Society of Regenerative Medicine and the Scientific Platform «Regenerative Medicine» of the Russian Ministry of Health. I am sure that the Congress will promote a productive exchange of scientific experience, discussion of priority problems in the field of regenerative medicine and ways to solve them, and also determine the prospects for the development of this field of medicine in the coming years.

I wish the participants of the III National Congress on Regenerative Medicine fruitful work, new successes in the research, sound health and well-being!

*Rector of MSU
RAS academician Victor A. Sadovnichiy*



Dear colleagues!

On behalf of the Russian Foundation for Basic Research I congratulate the participants of the III National Congress on Regenerative Medicine! The Russian Foundation for Fundamental Research considers one of its most important tasks to support the organization of scientific events in the most relevant and high-demanded areas for our country. Regenerative medicine, including gene and cell therapy and tissue engineering, which are at the cutting edge of present biomedical research, can be reliably referred to them. The Congress as the most ambitious scientific event in the field of regenerative medicine in our country is undoubtedly of great interest for a wide range of specialists. I am glad to note that the Congress is held with the support of the Russian Foundation for Basic Research.

Leading Russian and foreign scientists, doctors, business representatives and healthcare organizers will meet at the Congress, which makes the upcoming event an authoritative platform for the constructive multifaced dialogue and strengthening the professional network. I am confident that the Congress will provide a new boost in the development and improvement of research projects in the field of regenerative medicine. I wish the participants of the Congress interesting reports, the establishment of valuable scientific contacts, success in science and good health!

*Chairman of the Board of the RFBR,
RAS academician Vladislav Ya. Panchenko*

Dear colleagues, dear friends!

I am happy to welcome you at the 3rd National Congress on Regenerative Medicine, which takes place every two years and this time will be held at the Lomonosov Moscow State University which recently celebrated its 260th anniversary.

Regenerative medicine is a new field which appeared at the turn of the 20th and 21st centuries, but now it is beginning to enter medical practice with hundreds of clinical studies going on around the world. Many of them convincingly demonstrated the unique possibilities of gene, cell therapy and tissue engineering methods, which, in number of cases, made possible to cure serious hereditary and acquired diseases. In our country, since 2017, Federal Law No. 180-FZ «On Biomedical Cellular Products» came into force to regulate all aspects of use of cellular products in medicine. At present, work is underway to create a law on human tissue transplantation and establish a scientific and legal basis for use of regenerative medicine in clinic.



Russian scientists and companies conduct preclinical and clinical studies of gene and cell therapy products which in the future will enter the arsenal of regenerative medicine.

In recent years, the potential of regenerative medicine has expanded significantly due to fundamental research. The phenomena of reprogramming of cells and induction of their pluripotency were discovered, genome editing methods using CRISPR/Cas9 were developed, and transfer of genetic information between differentiated cells was detected. Regenerative medicine begins to focus on regulatory pathways that control physiological renewal of body tissues throughout life. Here the most urgent issues are study of the regulation of cell death and factors that control their division and differentiation.

All this gives us hope that in the future, regenerative medicine will be able to restore morphology and function of damaged tissues not only by exogenous introduction of genetic or cellular material, but also using regulatory molecules and methods that affect specific targets in the patient's body to induce renewal of tissues.

I hope that we will discuss all these issues during the work of the Congress, where we will be able to share new scientific ideas and results.

Good luck to all Participants!

*Congress President
President of the National Society of Regenerative Medicine
RAS and RAMS academician Vsevolod A. Tkachuk*

ORGANISERS:

Lomonosov Moscow State University
National Society of Regenerative Medicine

Russian Academy of Sciences
Russian Foundation for Basic Research

CONGRESS PRESIDENT AND PROGRAMME COMMITTEE CHAIR:**Vsevolod A. Tkachuk**

Academician of the Russian Academy of Sciences
Dean, Faculty of Medicine, Lomonosov Moscow State University
Director, Institute of Regenerative Medicine, Medical Research and Educational Centre, Lomonosov Moscow State University
President, National Society of Regenerative Medicine
Academic-Secretary, Physiological Sciences Department, Russian Academy of Sciences

PROGRAMME COMMITTEE:*Lyudmila B. Buravkova*

Corresponding Member of the Russian Academy of Sciences
Institute of Biomedical Problems, Russian Academy of Sciences

Denis V. Butnaru

PhD
Institute of Regenerative Medicine,
Sechenov University

Ekaterina A. Vorotelyak

Corresponding Member
of the Russian Academy of Sciences
Koltzov Institute of Developmental Biology, Russian
Academy of Sciences

Vadim M. Govorun

Academician of the Russian Academy of Sciences
Federal Research Clinical Centre of Physical and
Chemical Medicine, FMBA

Olga V. Grigorieva

PhD
Cellthera Pharm Ltd

Elena A. Gubareva

PhD
Kuban State Medical University

Roman V. Deev

PhD
Ryazan State Medical University

Nina I. Drize

DSc, Professor
Hematological Research Center

Boris D. Zhivotovsky

DSc, Professor
Faculty of Medicine, Lomonosov Moscow State
University, Karolinska Institutet

Suren M. Zakian

DSc, Professor
Institute of Cytology and Genetics, Siberian
department of the Russian Academy of Sciences

Andrey Yu. Zaritsky

DSc, Professor
Almazov National Research Centre

Sergey L. Kiselev

DSc, Professor
Vavilov Institute of General Genetics, Russian
Academy of Sciences

Andrey P. Kiyasov

DSc, Professor
Kazan Federal University

Galina V. Pavlova

DSc, Professor
Institute of Gene Biology, Russian Academy of Sciences

Yelena V. Parfyonova

DSc, Professor
Faculty of Medicine, Lomonosov Moscow State
University, National Research Centre of Cardiology

Viktor I. Sevastianov

DSc, Professor
Shumakov National Research Centre of
Transplantology and Artificial Organs

Natalya S. Sergeeva

DSc, Professor
Hertsen Moscow Oncology Research Institute

Oleg L. Serov

DSc, Professor
Institute of Cytology and Genetics, Siberian
department of the Russian Academy of Sciences

Alexey N. Tomilin

Corresponding Member of the Russian Academy
of Sciences
Institute of Cytology, Russian Academy of Sciences

Vladimir P. Chekhonin

Academician of the Russian Academy of Sciences
Russian National Pirogov Research
Medical University

Konstantin N. Yarygin

Corresponding Member of the Russian Academy of Sciences
Orekhovich Institute of Biomedical Chemistry

PRESIDIUM:

Gennady T. Sykhikh
Academician of the Russian Academy of Sciences
Congress Vice-President
Kulakov National Research Centre of Obstetrics,
Gynecology, and Perinatology

Andrey V. Vasiliev
Corresponding Member of the Russian Academy
of Sciences
Koltzov Institute of Developmental Biology,
Russian Academy of Sciences

Evgeny V. Shlyakhto
Academician of the Russian Academy of Sciences
Almazov National Research Centre

Nikolay N. Nikolsky
Academician of the Russian Academy of Sciences
Institute of Cytology, Russian Academy of
Sciences

Sergey V. Popov
Academician of the Russian Academy
of Sciences
Scientific Research Institute of Cardiology
Tomsk National Research Medical Centre
of the Russian Academy of Sciences

Valery G. Savchenko
Academician of the Russian Academy of Sciences
National Research Centre of Hematology

ORGANISING COMMITTEE:

Zhanna A. Akopyan
PhD
Medical Research and Educational Centre,
Lomonosov Moscow State University

Maria A. Alexandrova
DSc, Professor
Koltzov Institute of Developmental Biology,
Russian Academy of Sciences

Igor A. Grivennikov
DSc, Professor
Institute of Molecular Genetics, Russian Academy
of Sciences

Ilya I. Yeremin
MD, PhD
Cellthera Pharm Ltd

Anastasia Yu. Efimenko
MD, PhD
Institute of Regenerative Medicine,
Lomonosov Moscow State University

Vadim V. Zhdanov
DSc, Professor
Goldberg Institute of Pharmacology and
Regenerative Medicine

Arthur A. Isaev
JSC "Human Stem Cells Institute"

Armais A. Kamalov
Academician of the Russian Academy of Sciences
Medical Research and Educational Centre,
Lomonosov Moscow State University

Alexander M. Karas'kov
Academician of the Russian Academy of Sciences
Meshalkin National Research Centre

Anatoly G. Konoplyannikov
DSc, Professor
Tsyb Medical Research Centre of Radiology

Andrey V. Lisitsa
Academician of the Russian Academy of Sciences
Orekhovich Institute of Biomedical Chemistry

Sergey A. Lukianov
Academician of the Russian Academy
of Sciences
Russian National Pirogov Research Medical
University

Pavel I. Makarevich
MD, PhD
Institute of Regenerative Medicine, Lomonosov
Moscow State University

Mikhail A. Piradov
Academician of the Russian Academy
of Sciences
Neurology Research Centre

Albert A. Rizvanov
DSc
Kazan Federal University

Alexander G. Rumyantsev
Academician of the Russian Academy of Sciences
Dmitry Rogachev National Research Center
of Pediatric Hematology, Oncology and
Immunology

Elena V. Tarasova
PhD
Secretary of the Organising Committee
Faculty of Medicine, Lomonosov Moscow State
University

GENERAL INFORMATION

Scientific venues of the 3rd National Congress on REGENERATIVE MEDICINE

NOVEMBER 15-17, 2017

*Faculty of Medicine
Lomonosov Building*
Lomonosovsky prospect 27-1
Moscow
Russia
119 991



NOVEMBER 18, 2017

Medical Research and Educational Center
Lomonosovsky Prospekt 27–10
Moscow
Russia
119 991



HALLS OF THE FACULTY OF MEDICINE, LOMONOSOV MOSCOW STATE UNIVERSITY

Lomonosovsky Hall (2nd floor)
D-1 (1st floor, sector D)
D-2 (1st floor, sector D)
D-3 (1st floor, sector D)
D-5 (2nd floor, sector D)

HALLS OF THE MEDICAL RESEARCH AND EDUCATIONAL CENTER, LOMONOSOV MOSCOW STATE UNIVERSITY

Conference Hall (3rd floor)
201 (2nd floor)
218 (2nd floor)
209 (2nd floor)
315 (press center, 3rd floor)

REGISTRATION

Participants registration of the 3rd National Congress on REGENERATIVE MEDICINE will take place daily from November, 15 to November, 18.

November, 15, 2017 (12:00–19:00) – in the lobby of the 1st floor of the Lomonosov Building, Lomonosov Moscow State University.

November, 16–17, 2017 (08:00–19:00) – in the lobby of the 1st floor of the Lomonosov Building, Lomonosov Moscow State University.

November, 18, 2017 (08:00– 16:00) – in the lobby of the 1st floor of the Medical Research and Educational Center, Lomonosov Moscow State University

OPENING OF THE CONGRESS

Opening ceremony of the Congress will take place on November, 15, 2017 at 16:30 in the Hall of the Lomonosov Building, Lomonosov Moscow State University.

TIME LIMIT


Plenary lecture – 40 minutes. Lectures at the scientific symposia are to keep up with the established time in the Program of the Congress.

Speakers are to hand flash drives with presentations to a representative of the Organizing Committee during the registration or not later than 30 minutes before the start of the presentation.

POSTER SESSION

Poster session will take place in the lobby of the 2nd floor of the Lomonosov Building, Lomonosov Moscow State University. Posters must be set up according to the program of the Congress. We kindly ask you to set up posters before the start of the session and take them with you after the session as the organizers cannot guarantee their safety. We want to draw your attention to the fact that at least one of the authors should be present during the poster viewing for discussion of the material. Fixation material will be available at the Registration Desk.

TRANSLATION AT THE CONGRESS

All Meetings at the Lomonosovsky Hall will be provided with simultaneous translation. Parallel symposia with translation are marked in the program with .

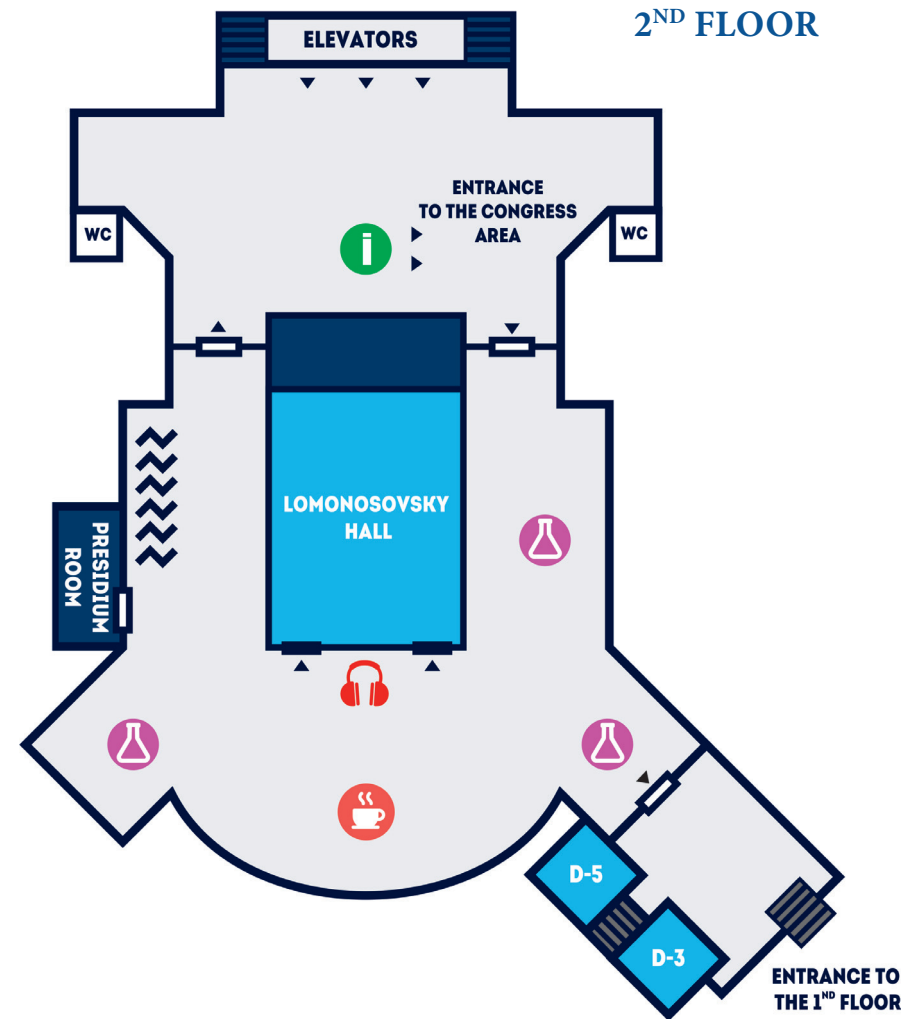
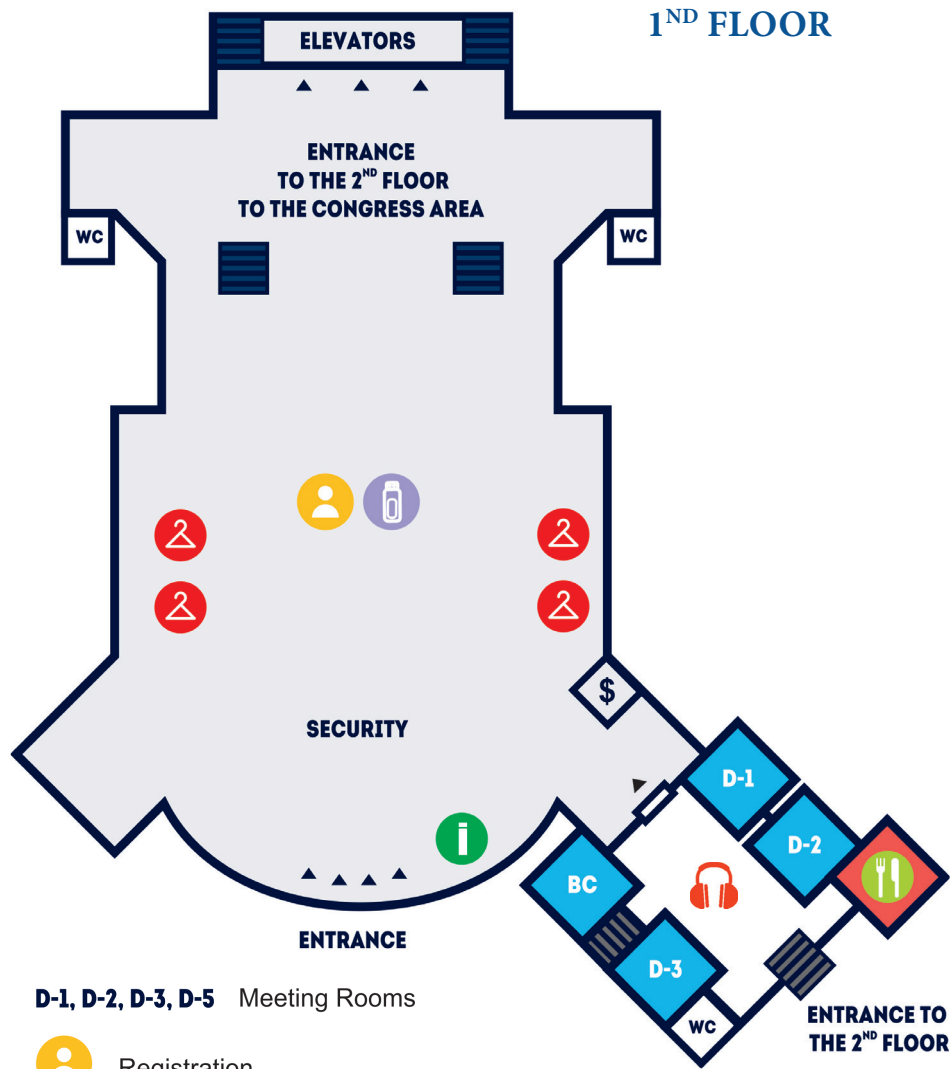
CERTIFICATES

Participants can get certificates at the registration desk during the 2nd and consecutive days of the Congress.

BUSINESS TRIP CERTIFICATES

Participants can mark business trip certificates at the registration desk.

VENUE PLAN



D-1, D-2, D-3, D-5 Meeting Rooms

Registration

Presentation Desk

Cloakroom

Canteen

BC Business center

\$ Sberbank ATM

Information Desk

Exhibition

Coffe-break

Headphones





Poster session




WC Toilets






12:00-16:30	Registration (registration is open until the end of the day)
16:30-17:20	<p>Congress opening RAS corresponding member Veronika I. Skvortsova, Minister of Health of the Russian Federation Professor Olga Yu. Vasilieva, Minister of Education and Science of the Russian Federation RAS academician Vladimir P. Chekhonin, Vice-president of the Russian Academy of Sciences RAS academician Victor A. Sadovnichy, Rector of the Lomonosov Moscow State University RAS academician Gennadiy T. Sukhikh, Congress Vice-President, Kulakov Scientific Centre of Obstetrics, Gynecology, and Perinatology RAS academician Vsevolod A. Tkachuk, Congress President, Lomonosov Moscow State University</p>
17:20-18:00	<p>Prospects of regeneration of myocardium: state of art Prof. Yelena V. Parfyonova, National medical research center of cardiology of the Ministry of healthcare of the Russian Federation, Moscow</p>
18:00-18:40	<p>Pluripotent stem cells: problems and prospective solutions RAS corresp. member Alexei N. Tomilin, Institute of Cytology, Russian Academy of Sciences, Saint Petersburg</p>
19:00-21:00	Welcome reception

November, 16, Thursday Lomonosovskiy building, MSU					
08:00-09:00	Registration (registration is open the whole day)				
09:00-11:00	Plenary session 1 <i>Lomonosovsky Hall</i> Chair: RAS academician Vsevolod A. Tkachuk, RAS academician Nikolay N. Nikolsky				
09:00-09:40	Role of stem cells in regeneration of nerve tissue Prof. Maria A. Alexandrova, Koltsov Institute of Developmental Biology, Russian Academy of Sciences, Moscow				
09:40-10:20	Phenomenon of plasticity in obtaining of insulin-producing cells for correction of insulin-dependent diabetes mellitus RAS corresp. member Andrey V. Vasiliev, Koltsov Institute of Developmental Biology, Russian Academy of Sciences, Moscow				
10:20-11:00	Programmed cell death and tissue regeneration Prof. Boris D. Zhivotovsky, Lomonosov Moscow State University, Moscow				
11:00-11:30	<i>Coffee-break, exhibition, poster session 1</i>				
11:30-13:00	Parallel symposia (PS)				Round table - 1 <i>Room D-1</i>
	PS1 <i>Lomonosovsky Hall</i>	PS2 <i>Room D-2</i>	PS3 <i>Room D-3</i>	PS4 <i>Room D-5</i>	
	Basic foundations of regeneration and reparation <i>Vsevolod A. Tkachuk, Ludmila B. Buravkova</i>	Gene therapy in regenerative medicine <i>Yelena V. Parfyonova, Andrey P. Kiyasov</i>	Mesenchymal stem cells in regenerative medicine <i>Nina I. Drize, Anastasia Yu. Efimenko</i>	Tissue engineering in regenerative medicine <i>Elena A. Gubareva, Sergey N. Chvalun</i>	Regulatory aspects of biomedical cell products <i>Andrey V. Vasiliev Igor' V. Korobko</i>
13:00-14:00	<i>Lunch, exhibition, poster session 1</i>				

14:00-15:30	PS5 <i>Lomonosovsky Hall</i> 	PS6 <i>Room D-2</i> 	PS7 <i>Room D-3</i> 	PS8 <i>Room D-5</i>	PS9 <i>Room D-1</i>
	In memoriam of A.A. Maximov, A.Y. Friedenstein and V.P. Demikhov <i>Nina I. Drize, Irina A. Odintsova, Vsevolod A. Tkachuk</i>	Extracellular vesicles in diagnostics and treatment <i>Ciro Tetta, Albert A. Rizvanov</i>	Induced pluripotent stem cells <i>Alexey N. Tomilin, Maria A. Lagarkova</i>	Technologies for creation of tissue-engineering constructions <i>Konstantin N. Yarygin, Victor I. Sevastyanov</i>	Regenerative medicine in cardiology <i>Eugeny A. Pokushalov, Vyacheslav V. Ryabov</i>
15:30-16:00	<i>Coffee-break, exhibition, poster session 1</i>				
16:00-18:40	Plenary session 2  <i>Lomonosovsky Hall</i> Chair: RAS corresp. member Alexey N. Tomilin, Prof. Natalya S. Sergeeva				
16:00-16:40	Stromal/stem cells of endometrium – biological properties and medicinal use RAS academician Nikolay N. Nikolsky, Institute of Cytology, Russian Academy of Sciences, Saint Petersburg				
16:40-17:20	Ageing of mesenchymal stromal cells: role of inflammation and oxidative stress RAS corresp. member Ludmila B. Buravkova, Institute of Biomedical Problems, Russian Academy of Sciences, Moscow				
17:20-18:00	The Plasminogen Activating System and Neurological Repair after Stroke Dr. Manuel Yepes, School of Medicine, Emory University, USA				
18:00-18:40	A radical switch in clonality reveals the formation of a stem cell niche in the epiphyseal growth plate Prof. Andrei Chagin, Karolinska Institutet, Stockholm and Sechenov University, Moscow				

17 November 2017, Friday (Lomonosovsky building, MSU)					
08:00-09:00	Registration (registration is open the whole day)				
09:00 – 11:00	Plenary session 3  <i>Lomonosovsky Hall</i> Chairs: RAS academician Vladimir P. Chekhonin, Prof. Andrey P. Kiyasov				
09:00-09:40	Multipotent mesenchymal stromal cells: analysis of efficiency of clinical use Prof. Nina I. Drize, Hematological Research Center, Moscow				
09:40-10:20	Stem cells transplantation on treating chronic spinal cord injury RAS academician Vladimir P. Chekhonin, Russian National Research Medical University, Moscow				
10:20-11:00	Exosomes of Neural Crest-Derived Stem Cells as a Novel Approach to Stimulate Bone Regeneration through Regulation of Osteogenesis and Angiogenesis <u>Prof. Darius Widera</u> , Reading School of Pharmacy, University of Reading, UK Prof. Wolf-Dieter Grimm, Witten/Herdecke, Germany				
11:00-11:30	<i>Coffee-break, exhibition, poster session 2</i>				
11:30-13:00	Parallel symposia (PS)				
	PS10  <i>Lomonosovsky Hall</i>	PS11 <i>Room D-1</i>	PS12 <i>Room D-2</i>	PS13  <i>Room D-3</i>	PS14 <i>Room D-5</i>
	Neurogenesis and regenerative medicine in neurology (in memoriam of Leonid I. Korochkin) <i>Galina V. Pavlova, Simon Hippenmeyer, Vladimir P. Baklaushev</i>	Physiological mechanisms of regulation of cell death in differentiated and cancer cells <i>Boris D. Zhivotovsky, Dmitry B. Zorov</i>	Skin in the focus of regenerative medicine <i>Ekaterina A. Vorotelyak, Miralda I. Blinova</i>	Regenerative and tissue-engineering approaches in surgery <i>Ilya I. Eremin, Vyacheslav S. Vasiliev</i>	Biomaterials in regenerative medicine <i>Mikhail I. Shtilman, Elena A. Markvicheva</i>
13:00-14:00	<i>Lunch, exhibition, poster session 2</i>				

14:00-15:30	PS10a <i>Lomonosovsky Hall</i> 	PS15 <i>Room D-1</i>	PS16 <i>Room D-2</i>	PS17 <i>Room D-3</i> 	PS18 <i>Room D-5</i>
	Neurogenesis and regenerative medicine in neurology (in memoriam of Leonid I. Korochkin) <i>Victor S. Tarabykin, Galina V. Pavlova</i>	Activated bone-to-plastic materials for regenerative medicine <i>Natalya S. Sergeeva, Roman V. Deev</i>	Genetic modification of stem cells and genome editing <i>Suren M. Zakian, Sergey P. Medvedev</i>	Regenerative potential of stem cells from neural crest) <i>Wolf-Dieter Grimm, Darius Widera</i>	Regenerative medicine for muscle repair <i>Victor V. Banin, Irina N. Saburina, Andrey A. Pulin</i>
15:30-16:00	<i>Coffee-break, exhibition, poster session 2</i>				
16:00 – 18:40	Plenary session 4  <i>Lomonosovsky Hall</i> Chairs: RAS academician Gennady T. Sukhikh, RAS corresp. member Konstantin N. Yarygin				
16:00-16:40	Pluripotent stem cells for fundamental research and practical use) <i>Prof. Sergey L. Kiselev, Vavilov Institute of General Genetics, Russian Academy of Sciences, Moscow</i>				
16:40-17:20	Sustenance and proliferation of stem cells in adult brain <i>Prof. Grigory N. Enikolopov, Moscow Institute of Physics and Technology, Moscow</i>				
17:20-18:00	Using Baculovirus-Mediated miR-214 Sponges Switch Osteoporotic ASCs from Adipogenesis to Osteogenesis <i>Dist. Prof. Yu-Chen “Andy” Hu, National Tsing-Hua University, Taiwan</i>				
18:00-18:40	Gene editing and transgenesis in creation of biomedical cell drugs <i>Dr. Sergey P. Medvedev, Institute of cytology and genetics the siberian branch of the RAS, Novosibirsk</i>				

18 November 2017, Saturday MSU Medical Center «Translational research in regenerative medicine»					
08:00-09:00	Registration (registration is open the whole day)				
09:00-10:00	Joint session of Ministry of Health “Regenerative medicine” Platform and Regenerative Medicine Society <i>Conference Hall</i>				
10:00-11:30	Presentations by Young scientist award and poster award winners <i>Conference Hall</i>				
11:30-12:00	<i>Coffee break</i>				
12:00-13:30	Parallel symposia (PS)				Round table - 2 <i>Room 315</i>
	PS19 <i>Conference Hall</i>	PS20 <i>Room 201</i>	PS21 <i>Room 209</i>	PS22 <i>Room 218</i>	
	Cellular and tissue-engineering approaches in regenerative andro urology <i>Armais A. Kamalov, Denis V. Butnaru</i>	Reparative regeneration of skin in models <i>Nikolay P. Omelyanenko, Sergey V. Sazonov Supported by LLC “BioVitrum”</i>	New methods and approaches in regenerative medicine <i>Elena V. Zagainova, Timur Kh. Fatkhudinov</i>	Innovative research in the field of regenerative medicine (session hosted by “Skolkovo” foundation) <i>Pavel .I. Makarevich, Elmira R. Sapharova</i>	Bioethics and regenerative medicine <i>Elena V. Bryzgalina</i>
14:30-15:00	<u>Congress Closing Ceremony</u>				

PARALLEL SYMPOSIA

16 NOVEMBER 2017, THURSDAY

Parallel symposium 1 Fundamental foundations of regeneration and reparation <i>Chair – RAS academician Vsevolod A. Tkachuk, RAS corresp. member Ludmila B. Buravkova</i>	
11:30-11:50	Physiological mechanisms of regulation of regenerative processes Vsevolod A. Tkachuk, Faculty of fundamental medicine, Lomonosov Moscow State University, Moscow
11:50-12:10	Morphological aspects of regenerative medicine Anatoly B. Shekhter, Institute of regenerative medicine I.M. Sechenov First Moscow State Medical University, Moscow
12:15-12:35	Interaction between mesenchymal stem cells and monocyte derived macrophages: phenotype polarization and hypoxia <u>Elena R. Andreeva</u> and Lyudmila V. Buravkova, Institute of Biomedical Problems, Russian Academy of Sciences, Moscow
12:35-12:50	Qualities of amino acid metabolism in proliferation and myogenic differentiation Tatyana F. Subbotina, First Pavlov State Medical University of St. Petersburg, Saint Petersburg
12:50-13:00	Discussion
Parallel symposium 2 Gene therapy in regenerative medicine <i>Chair – Prof. Yelena V. Parfyonova, Prof. Alexey P. Kyasov</i>	
11:30-11:50	Gene therapy in regenerative medicine: results and prospects <u>Pavel I. Makarevich</u> , Yelena V. Parfyonova, Vsevolod A. Tkachuk Faculty of medicine, Lomonosov Moscow State University, National medical research center of cardiology of the Ministry of healthcare of the Russian Federation, Moscow
11:50-12:10	Direct gene therapy with VEGF and FGF2 stimulates regeneration of damaged sciatic nerve in rat Galina A. Masgutova, Kazan Federal University, Kazan
12:10-12:25	Application of gene-modified dermal fibroblasts for treatment of 3rd degree burns Yelena Yu. Zakirova, Kazan Federal University, Kazan
12:25-12:40	Stimulation of posttraumatic regeneration with gene therapy constructions carrying brain derived neurotrophic factor (BDNF) and urokinase plasminogen activator (uPA) Dmitry V. Stambolsky, Faculty of fundamental medicine, Lomonosov Moscow State University, Moscow
12:40-12:55	Adipose-derived Stem Cell Sheets Functionalized by Hybrid Baculovirus for Prolonged GDNF Expression and Improved Nerve Regeneration Mu-Nung Hsu, National Tsing-Hua University, Taiwan
Parallel symposium 3 Mesenchymal stem cells in regenerative medicine <i>Chair – Prof. Nina I. Drize, PhD Anastasia Yu. Efimenko</i>	
11:30-11:50	Identification, biology, and therapeutic use of native mesenchymal stem cells in multiple organs and tissues Bruno Péault, University of Edinburgh, UK

11:50-12:00	Regulation of sensitivity of mesenchymal stem/stromal cells to catecholamines Pyotr A. Tyurin-Kuzmin, Faculty of medicine, Lomonosov Moscow State University, Moscow
12:00-12:10	Use of genetic barcoding for investigation of clonal composition and its dynamic in multipotent mesenchymal stem cells Alexey E. Bigildeev, Hematological Reseach Center, Moscow
12:10-12:20	Evaluation of action of nanoparticles on properties of bone marrow-derived mesenchymal stem cells in vitro and its visualization in vitro and in vivo Natalya M. Yudintseva, Institute of Cytology, Russian Academy of Sciences, Saint Petersburg
12:20-12:35	Secretome of human mesenchymal stem/stromal cells as basis for development of new drugs and biomaterials for regenerative medicine Anastasya Y. Efimenko, Faculty of medicine, Lomonosov Moscow State University, Moscow
12:35-12:45	Application of autologous bone marrow derived mesenchymal stem cells in neurology Svetlana M. Kosmacheva, Republic scientific-practical center of transfusiology and medical biotechnology RNPC, Belarus
12:45-13:00	Clinical investigation of efficiency and safety of treatment of patients with fast progressing forms of idiopathic pulmonary fibrosis by allogeneic bone marrow derived mesenchymal stem cells. Alexander V. Averyanov, FMBA Institute of pulmonology, Moscow

Parallel symposium 4

Tissue engineering in regenerative medicine

Chair – PhD Elena A. Gubareva, Prof. Sergey N. Chvalun

11:30-11:50	Bioartificial carcasses of tubular organs: structure, biomechanic, biocompatibility in vitro and in vivo Sergey N. Chvalun, NRC Kurchatov Institute, Moscow
11:50-12:10	Creation of tissue-engineering constructions based on biological and synthetic matrixes as prospective method for regenerative medicine Elena A. Gubareva, Kuban State Medical University, Krasnodar
12:10-12:25	Osteogenesis on titanium nanotubes with anamorphic hydroxyapatite in vitro. Alexander A. Gaidash, Institute of Cytology, Russian Academy of Sciences, Saint Petersburg
12:25-12:40	Characterization of different cell lines and possibility of its use for recellularization of biological matrixes Elena V. Kuevda, Kuban State Medical University, Krasnodar
12:40-12:50	Comparative characterization of results of implantation of low diameter biodegradable vessel grafts with differnt biofunctional surfaces Larisa V. Antonova, Kuzbass Cardiology center, Kemerovo
12:50-13:00	Multiparametric laboratories-on-chip as an instrument of experimental regenerative medicine and synthetic morphogenesis Oleg V. Gradov, V.L. Talroze Institute of Energy Problems of Chemical Physics of the RAS, Moscow

Parallel symposium 5


In memoriam of Alexander A. Maximov, Alexander Ya. Friedenstein and Vladimir P. Demikhov


*Chair – Prof. Nina I. Drize, Prof. Irina A. Odintsova.,
RAS academician Vsevolod A. Tkachuk*



14:00-14:20	The scientific and pedagogical activity of the professor A.A. Maximov in Military Medical Academy Irina A. Odintsova., S.M. Kirov Military Medical Academy, Saint Petersburg
-------------	--

14:20-14:40	About Alexander Ya. Friedenstein Nina I. Drize, Hematological Research Center, Moscow
14:40-15:00	About Vladimir P. Demikhov Vsevolod A. Tkachuk, Lomonosov Moscow State University, Moscow
15:00-15:30	Award Ceremony

Parallel symposium 6 Extracellular vesicles in diagnostics and treatment <i>Chair – D.Sc. Ciro Tetta, D.Sc Albert A. Rizvanov</i> 	
14:00-14:20	Artificial microvesicles from stem and cancer cells: acquiring, biological properties and potential therapeutic use Albert A. Rizvanov, Kazan Federal University, Kazan
14:20-14:40	Effects of extracellular vesicles in repair of acute and chronic renal injury Ciro Tetta, Unicyte AG, Switzerland
14:40-14:55	Tumor exosomes in diagnostics and therapy of oncological diseases: present and perspectives Tatyana A. Shtamm, N.N. Petrov Research Institute of Oncology, Saint Petersburg
14:55-15:10	PDGF enhances the pro-regenerative properties of extracellular vesicles released from adipose mesenchymal stem cells Tatiana Lopatina, University of Turin, Italy
15:10-15:20	Apoptotic microvesicles from mesenchymal stem cells can cause therapeutic effect during mycobacterial infection in mice Antonina E. Petrenko, Novosibirsk State University, Novosibirsk institute of tuberculosis, Novosibirsk
15:20-15:30	Optimization of procedures of acquiring of exosomes from cell cultures via nanoparticles trajectory analysis (NTA) Evgeny G. Evtushenko, Lomonosov Moscow State University, Moscow

Parallel symposium 7 Induced pluripotent stem cells <i>Chair – RAS corresp. member Alexey N. Tomilin, RAS corresp. member Mariya A. Lagarkova</i> 	
14:00-14:15	Generation of megabase deletions, duplications and inversions, including gene CNTN6 in mice: experimental models of neuro-psychic dysfunctions caused by massive chromosomal remodeling Oleg L. Serov, Institute of cytology and genetics the siberian branch of the RAS, Research Institute of Medical Genetics, Tomsk
14:15-14:30	Investigation of mechanisms of development of cardiomyopathies with use of induced pluripotent cells Anna B. Malashicheva, Almasov national medical scientific center, Saint Petersburg
14:30-14:45	Pluripotent stem cells as source for pigment epithelium cells of eye retina Mariya A. Lagarkova, Federal research and clinical center of physical-chemical medicine FMBA, Moscow
14:45-15:00	Model for Down syndrome in vitro using induced pluripotent stem cells and its link with Alzheimer disease Erdem B. Dashynymaev, Koltzov Institute of Developmental Biology of Russian Academy of Sciences, Moscow
15:00-15:10	Comparative analysis of experimental tumors from human ESC and iPSC (results of teratoma test) Elena A. Kizilova, Institute of cytology and genetics the siberian branch of the RAS, Novosibirsk
15:10-15:20	Acquiring of iPSC with circular chromosomes and analysis of their stability in somatic and pluripotent cells Tatyana V. Nikitina, Research Institute of Medical Genetics, Tomsk
15:20-15:30	Novel solutions for human pluripotent stem cell research S. Simmini, STEMCELL, UK


Parallel symposium 8 Technologies for creation of tissue-engineering constructions <i>Chairs – RAS corresp. member Konstantin N. Yarygin,</i> <i>Prof. Victor I. Sevastyanov</i>	
14:00-14:20	Personalised tissue-engineering constructions for regenerative medicine Vladimir K. Popov, Federal scientific center of crystallography and photonics, Moscow
14:20-14:40	From allogeneic bone implants to 3-D printing: modeling in vitro, remodelling in vivo Natalya S. Sergeeva, National center of radiology, Moscow
14:40-14:55	Functional equivalent of tracheal epithelium on the base composite non-fibrous two-layered polymer matrix Olga A. Romanova, NRC Kurchatov Institute, Moscow
14:55-15:10	Function-oriented mineral-polymer materials for engineering of bone tissue Vladimir S. Komlev, S.M. Barinov, Baikov institute of metallurgy and material science, Moscow
15:10-15:20	Practical aspects and perspectives of use of tissue-engineering constructions, made with scaffold-free technology in regenerative medicine Igor V. Ponomarev, Research Centre of Medical Technology and Biotechnology, Bad Langensalza, Germany (fzmb GmbH)
15:20-15:30	Development and use of miniature bioreactor for human cartilage tissue formation Yulia B. Basok, Academician V.I.Shumakov Federal Research Center of Transplantology and Artificial Organs, Moscow
Parallel symposium 9 Regenerative medicine in cardiology <i>Chair – RAS corresp. member Evgeny A. Pokushalov,</i> <i>Prof. Vyacheslav V. Ryabov</i>	
14:00-14:20	Modelling of inherited cardiovascular diseases with induced pluripotent stem cells: successes, problems and perspectives Elena.V. Dementeva, Meshalkin National medical scientific center, Novosibirsk
14:20-14:40	Monocytes/macrophages in postinfarction regeneration of myocardium: from experiment to clinic Vyacheslav V. Ryabov, Tomsk National Research Medical Center Cardiology Research Institute, Tomsk
14:40-14:55	Possibility of use of dispersed form of “Alloplant” drug for prevention of postinfarction remodeling of heart Sergey A. Afanasyev, Tomsk National Research Medical Center Cardiology Research Institute, Tomsk
14:55-15:10	Intramyocardial transplantation of resident heart progenitor cells causes activation of epicardial cells and stimulation of neo vasculogenesis in area of damage Konstantin V. Dergilev, National medical research center of cardiology of the Ministry of Health of the Russian Federation, Moscow
15:10-15:20	Influence of hypoxia on potential of heart stem cells in myocardium regeneration Pavel M. Dokshin, Saint Petersburg State University, Saint Petersburg
15:20-15:30	Pathogenetic approach to correction of genetic mechanisms of coronary insufficiency Oleg G. Makeev, Ural State Medical University, Ekaterinburg

PARALLEL SYMPOSIA
NOVEMBER 17 2017, FRIDAY

Parallel symposium 10 Neurogenesis and regenerative medicine in neurology (in memoriam of Leonid I. Korochkin) <i>Chair – Prof. Galina V. Pavlova, D.Sc Simon Hippenmeyer, Dr. Vladimir P. Baklaushev,</i>	
11:30-11:40	About Russian neurogeneticist Leonid I. Korochkin Galina V. Pavlova, Institute of Gene Biology, Russian Academy of Sciences, Moscow
11:40-12:00	Molecular Mechanisms of Neural Stem Cell Lineage Progression Simon Hippenmeyer, PhD, Genetic Dissection of Cerebral Cortex Development, Institute of Science and Technology, Austria
12:00-12:20	Modified GDNF as inductor neurological differentiation of progenitor cells in therapy Galina V. Pavlova, Institute of Gene Biology, Russian Academy of Sciences, Moscow
12:20-12:35	Tissue-engineering structures for therapy of spinal injury Vladimir P. Baklaushev, FSCC FMBA, Moscow
12:35-12:50	Neuronal insulin sensitizer in new approaches to treatment of neurodegenerative diseases Igor A. Pomytkin, Institute of regenerative medicine I.M. Sechenov First Moscow State Medical University, Moscow
12:50-13:00	Cellular approaches to therapy of traumatic spinal cord disease: preclinical trials on big animals (pigs) Yanna O. Mukhamedshina, Kazan Federal University, Kazan
Parallel symposium 10a – Neurogenesis and regenerative medicine in neurology <i>Chair – Prof. Victor S. Tarabykin, Prof. Galina V. Pavlova</i>	
14:00-14:20	Defining the fate of neocortical stem cells: extrinsic and intrinsic factors Victor S. Tarabykin, Charite, Germany
14:20-14:40	Participation of urokinase system in nerve regeneration Ekaterina V. Semina, Faculty of medicine, Lomonosov Moscow State University, Moscow
14:40-14:55	Cell-engineering constructions for regeneration and study of function of nerve system Irina V. Mukhina, Nizhny Novgorod state medical academy, Nizhny Novgorod
14:55-15:10	Neuroprotective properties of multipotent mesenchymal stem cells in cranial-brain trauma Denis N. Sylachev, Kulakov Scientific Centre of Obstetrics, Gynecology, and Perinatology, Moscow
15:10-15:20	Correction of neuropathological processes using genome editing tools with adeno- and lenti-associated vectors Vitaly A. Kasymov, Kant Baltic Federal University, Kaliningrad
15:20-15:30	Effect of infra-red light on culture of neural stem cells from olfactory epithelium of human Elina V. Kamenskaya, Nizhny Novgorod state medical academy, Nizhny Novgorod
Parallel symposium 11 Physiological mechanisms of regulation of cell death in differentiated and cancer cells <i>Chair – Prof. Boris D. Zhivotovsky, Prof. Dmitry B. Zorov</i>	
11:30-11:50	Free-radical stages of programmed cell death Yury A. Vladimirov, Faculty of medicine, Lomonosov Moscow State University, Moscow
11:50-12:05	T-cadherin – navigational receptor, participating in vessel growth, remodeling and tumor progression Ksenya A. Rybina, Faculty of medicine, Lomonosov Moscow State University, Moscow
12:05-12:15	Cytotoxic effect of doxorubicin on mesenchymal stem cells of different origin Irina V. Kozhuharova, Institute of Cytology, Russian Academy of Sciences, Saint Petersburg

12:15-12:35	Restoration of energy metabolism of neurons and astrocytes during the transfer of mitochondria from multipotent stromal cells Egor Y. Plotnikov, «A.N. Belozersky Institute of Physico-Chemical Biology» MSU, Moscow
12:35-12:45	The role of hnRNP-K in regulating the expression of Oct-4 Evgeny I. Bahmet, Institute of Cytology, Russian Academy of Sciences, St. Petersburg
12:45-13:00	Programmed cellular death of platelets upon activation: molecular mechanisms and (patho) physiological importance Mikhail A. Panteleev, Centre for Theoretical Problems of Physical and Chemical Pharmacology RAS, Moscow

Parallel symposium 12 Skin in the focus of regenerative medicine <i>Chair – RAS corresp. member Ekaterina A. Vorotelyak,</i> <i>PhD Miralda I. Blinova</i>	
11:30-11:50	The role of fibroblasts in skin tissue regeneration during wound healing Miralda I. Blinova, Institute of Cytology, Russian Academy of Sciences, St. Petersburg
11:50-12:10	Reconstruction of skin and skin appendages via tissue engineering Ekaterina A. Vorotelyak, Koltsov Institute of Developmental Biology RAS, Moscow
12:10-12:25	Congenital bullous epidermolysis. Diagnostics. Allogeneic fibroblasts therapy Arfenya E. Karamova, State scientific center of dermatovenereology and cosmetology, Moscow
12:25-12:35	The importance of SR-protein kinase 1 (SRPK1) in dermal regeneration during physiological aging Natalya N. Golubtsova, Chuvash State University, N.N. Ulyanova, Cheboksary
12:35-12:45	Development of a model of an ischemic and long term non-healing skin wound on mice, for studying the effects on the processes of regeneration Elena I. Morgun, MIPT, Moscow
12:45-12:55	Possible applications of gene therapy using plasmid pCMV-VEGF165 in healing full-thickness skin defect on rats after autodermoplasty Ayrat I. Bilyalov, Kazan Federal University, Kazan

Parallel symposium 13 Regenerative and tissue-engineering approaches in surgery <i>Chair – PhD Ilya I. Eremin,</i> <i>PhD Vyacheslav S. Vasilyev</i>		
11:30-11:50	New frontiers in orthopaedics and bone diseases Thomas Lienard, “Bone Therapeutics”, Belgium	
11:50-12:10	Mechanisms of engraftment of fat transplant and the potential of lipografting in reconstructive surgery of various anatomical zones Vyacheslav S. Vasilyev, South Ural State Medical University, Chelyabinsk	
12:10-12:25	Adipose tissue – a source of cells with regenerative potential Ilya I. Eremin, Cellthera Pharm, Moscow	
12:25-12:40	An evaluation of safety and effectiveness of intraarticular injection of stromal-vascular fraction for treating osteoarthritis. Intermediary results of a clinical research Ivan A. Smyshlyaev, Presidential Central Hospital with Polyclinic, Moscow	
12:40-12:50	Possible applications of stromal-vascular fraction for treating chronic ischemia of lower limbs – intermediary results of a clinical research Andrey A. Kalinin Presidential Central Hospital with Polyclinic, Moscow	
12:50-13:00	The first experience of using percutaneous rigototomy for treating children’s cicatricial deformities. Anna A. Lagutina, Speransky Children Hospital №9, Moscow	

Parallel symposium 14 Biomaterials in regenerative medicine <i>Chair – Prof. Mikhail I. Shtilman, Elena A. Markvicheva</i>	
11:30-11:45	Biomaterials – tendencies and development perspectives Mikhail I. Shtilman, D. Mendeleev University of Chemical Technology of Russia, Moscow
11:45-12:00	Biodegradable polymer matrices for tissue engineering Elena A. Markvicheva, Institute of Bioorganic Chemistry, Moscow
12:00-12:15	Functional features of 3D biodegradable scaffolds formed with laser additive technologies. Pyotr S. Timashev, Institute of regenerative medicine I.M. Sechenov First Moscow State Medical University, Moscow
12:15-12:30	Smart Polymers for Advanced Cell Technology and Tissue Engineering Yury A. Rochev Sechenov First Moscow State Medical University, Institute for Regenerative Medicine, Moscow, Russia; National University of Ireland Galway, Ireland
12:30-12:45	Scaffold for skin defects reparation Marfa N. Egorihina, Nizhny Novgorod Research Institute of Traumatology and Orthopedics of Public Health, Nizhny Novgorod
12:45-13:00	Development and effectiveness evaluation of a L-poly lactide matrix used to create a tissue-engineered vessel implant. Guriy I. Popov, First Pavlov State Medical University of St. Petersburg, St. Petersburg.
Parallel symposium 15 Activated bone-plastic materials (for regenerative medicine) <i>Chair – Prof. Natalya S. Sergeeva, Ph.D Roman V. Deev</i>	
14:00-14:20	General conditions of the concept of gene-activated materials Georg Feichtinger, University of Leeds, UK
14:20-14:40	Preclinical research of composite osteoplastic materials obtained through 3D printing and functionalized by antibiotics or antitumor drugs Pavel A. Karalkin, Herzen Moscow Institute of Oncology, Moscow
14:40-14:50	3D-prototyped implants for bone plastic surgery: the first results of the experiment Ilya Y Bozo, Baikov institute of metallurgy and material science, Moscow
14:50-15:05	The influence of plasmid DNA coding genes VEGF and BMP2 on angiogenesis and osteogenesis during in vitro experiments Margarita N. Juravleva, Kazan Federal University, Kazan
15:05-15:20	Cellular and tissue technologies of controlling reparative osteogenesis. Experimental and clinical research Nikolay P. Omelyanenko, N.N. Priorov Center of traumatology and orthopedy, Moscow
15:20-15:30	Results of initiative clinical research of jaw reconstruction using tissue-engineered structures Grigory A. Volozhin, Evdokimov Moscow State University of Medicine and Dentistry, Moscow
Parallel symposium 16 Stem cells genetic modification and genome editing <i>Chair – Prof. Suren M. Zakiyan, Ph.D Sergey P. Medvedev</i>	
14:00-14:20	A study of non-histone proteins HMGB1 and HMGB2 in mice chromatin ESC Tatyana Y. Starkova, Institute of Cytology RAS, Saint-Petersburg
14:20-14:35	Disturbance of expression of alleles of CNTN6 gene in neurons derived from the patient's induced pluripotent stem cells with 3p23.3 microduplication Maryia M. Gridina, Institute of Cytology and Genetics, Siberian Branch of RAS, Novosibirsk
14:35-14:50	An effective method of CRISPR/Cas9-mediated gene deactivation in cell populations with unstable karyotype Maxim N. Karagyaur, Lomonosov Moscow State University, Moscow

14:50-15:05	Creating a cell platform for studying molecular-genetic mechanisms of Parkinson disease pathogenesis Victoria R. Kovalenko, Institute of Cytology and Genetics, Siberian Branch of RAS, Novosibirsk
15:05-15:15	Development of a genetically modified line of human pluripotent stem cells, expressing hypoxia induced factor Irina S. Zaharova, Institute of Cytology and Genetics, Siberian Branch of RAS, Novosibirsk
15:15-15:30	Discussion

Parallel symposium 17
Regenerative Potential of Neural crest-related Stem Cells (NCSCs)
Chair – Prof. Wolf-Dieter Grimm, Prof. Darius Widera



14:00-14:20	Neural Crest-Derived Stem Cells as a Tool in Regenerative Medicine Wolf-Dieter Grimm, Institute of Regenerative Medicine, Stavropol State Medical University, Russia
14:20-14:40	Extracellular Vesicles derived from Neural Crest-Derived Stem Cells as a Novel Approach to Stimulate Bone Regeneration Darius Widera, Reading School of Pharmacy, University of Reading, United Kingdom
14:40-14:55	Current status on clinical applications of magnesium-based orthopaedic implants: A review from clinical translational perspective Frank Witte, Charité University Medicine Berlin, Germany
14:55-15:10	Neural Crest-Derived Stem Cell Homing and BoneRings[®]-Augmentation Improve Bone Remodeling Bernd Giesenhagen, University of Frankfurt/M., Implant Center Kassel, Germany
15:10-15:20	CD 271-based magnetic isolation of ovine NCSCs Nikolay N. Didenko, Stavropol State Medical University, Stavropol
15:20-15:30	Standardized defect sheep models as a prerequisite for ovine NCSCs bone regeneration research Emre Benlidayi, Faculty of Dentistry, Cukurova University, Turkey
15:30-15:40	Osteogenic differentiation of adult stem cells within 3D nanofibrillar cellulose hydrogels Jonathan Sheard, School of Pharmacy, University of Reading, UK

Parallel symposium 18
Regenerative medicine for muscle tissue

Chair – RAS corresp. member Victor V. Banin,
Prof. Irina N. Saburina, Ph.D Andrey A. Pulin

14:00-14:15	Alveolar mucosa cells influence on skeletal muscle tissue regeneration Andrey A. Pulin, Institute of general pathology and pathophysiology, Moscow
14:15-14:30	Molecular mechanisms of myogenic differentiation of multipotent mesenchymal stromal cells of human gum Vadim L. Zorin, Institute of Human stem cells, Institute of general pathology and pathophysiology, Moscow
14:30-14:45	Evaluation of skeletal muscle tissue regeneration in mice of line Bla/J after adenovirus Ad5-DYSE transduction Olga N. Chernova, Kazan Federal University, Kazan
14:45-15:00	Search for myohistological criteria predicting the results of gene-cellular therapy of chronic obliterating diseases of lower limb arteries Mikhail O. Mavlikeev, Kazan Federal University, Kazan
15:00-15:15	Myogenic differentiation of fibroblasts induction in vitro Ivan A. Yakovlev, Ryazan State Medical University, Ryazan
15:15-15:30	A model of “functional heart” based on explanation myocardium 3D culture Nastasya V. Kosheleva, Institute of general pathology and pathophysiology, Moscow

PARALLEL SYMPOSIA
NOVEMBER 18 2017, SATURDAY

<p>Parallel symposium 19 Cellular and tissue-engineering approaches in regenerative uroandrogology <i>Chair – RAS academician Armais A. Kamalov,</i> <i>PhD Denis V. Buntaru</i></p>	
12:00-12:20	<p>Capabilities of tissue engineering and regenerative medicine in urology Armais A. Kamalov, Dmitry A. Okhobotov, Medical Center of Lomonosov Moscow State University, Moscow</p>
12:20-12:40	<p>Current state of tissue engineering of urethra Denis V. Buntaru, Institute of regenerative medicine I.M. Sechenov University, Moscow</p>
12:40-12:55	<p>Results of phases I-II of clinical research aimed at safety and effectiveness evaluation of using stromal-vascular fraction to treat vasculogenic erectile dysfunction Mikhail E. Chaliy, I.M. Sechenov First Moscow State Medical University, Moscow</p>
12:55-13:10	<p>Allotransplantation of neonatal testicular tissue. Neorganogenesis and functional effects. Vladimir I. Kirpatovskiy, Lopatkin Institute of urology and interventional radiology, Moscow</p>
13:10-13:20	<p>Reconstructive plastic surgery of urinary tracts with type 1 collagen David M. Kamalov, Medical Center of Lomonosov Moscow State University, Moscow</p>
13:20-13:30	<p>Looking for new targets for pharmacological correction of disorders of spermatogenesis occurring with diabetes Angelina V. Pahomova, Goldberg Research Institute of Pharmacology and Regenerative Medicine, Tomsk</p>

<p>Parallel symposium 20 Reparative regeneration of skin in model systems <i>Chair - Prof. Nikolay. P. Omelyanenko,</i> <i>Prof. Sergey V. Sazonov</i> <i>Supported by LLC “BioVitrum”</i></p>	
12:00-12:15	<p>New capabilities of Nikon light-optical and confocal microscopy in studying cell and tissue structure Pavel A. Zykov, “BioVitrum”, Saint-Petersburg</p>
12:15-12:30	<p>Multilevel morphological analysis of structural components of normal rat skin Ekaterina S. Mishina, Kursk State Medical University, Kursk</p>
12:30-12:50	<p>Structural dynamics of forming a fiber basis for the reparative regenerate from supramolecular to tissue level of organization during spontaneous healing of limited damage Nikolay P. Omelyanenko, N.N. Priorov Center of traumatology and orthopedy, Moscow</p>
12:50-13:05	<p>Cell sheets of mesenchymal stromal cells cause tissue healing in rats Natalya A. Aleksandrushkina, Medical Research Center of Lomonosov Moscow State University, Moscow</p>
13:05-13:20	<p>Discussion</p>

Parallel symposium 21 New methods and approaches in regenerative medicine <i>Chair – Prof. Elena V. Zagainova,</i> <i>DSc Timur Kh. Fatkhudinov</i>	
12:00-12:20	Analysis of structural-functional indicators of mesenchymal stem cells during differentiation using the new high definition microscopy and fluorescent visualization methods Elena V. Zagainova, Nizhny Novgorod State Medical Academy, Nizhny Novgorod
12:20-12:40	Pharmacological regulation of intercellular signal transduction in regenerative-competent cells strategy Gleb N. Zyuzkov, Goldberg Research Institute of Pharmacology and Regenerative Medicine, Tomsk
12:40-12:50	Long term protector effect of transplanting autologous neural stem cells on the basis of 3D biodegrading scaffold on CNS function of C57BL6 mice during craniocerebral trauma treatment Olga P. Tikhobrazova, Nizhny Novgorod State Medical Academy, Nizhny Novgorod
12:50-13:05	Autotransplantation of microsurgical complexes of tissues in reconstructive surgery Ruben T. Adamyan, Medical Center of Lomonosov Moscow State University, Moscow
13:05-13:15	Morphological characteristic of primates' tissue reaction to subdermal implantation of tissue-engineered tracheal structure Irina V. Gilevich, Ochapovsky Clinical hospital, Krasnodar
13:15-13:30	Tissue-engineered surgical prosthetic for reconstructive surgery of body cavity defects Timur Kh. Fatkhudinov, Kulakov Research Center for Obstetrics, Gynecology and Perinatology, Moscow

Parallel symposium 22 Innovative developments in the regenerative medicine field (hosted by “Skolkovo” fund) <i>Chair – Ph.D Pavel. I. Makarevich,</i> <i>Ph.D Elmira. R. Safarova</i>	
12:00-12:20	Skolkovo: the journey from a scientific idea to a marketable project Elmira. R. Safarova, “Skolkovo” foundation, Moscow
12:20-12:40	Treating multiple sclerosis with autologous regulatory T cells CD4+FoxP3+ transformed ex vivo Svetlana. Y. Bykovskaya, “Regenex” Ltd, Moscow
12:40-13:00	Main challenges for cell and gene drug development in academic media Anastasya. Y. Efimenko and Pavel I. Makarevich, Medical Center of Lomonosov Moscow State University, Moscow
13:00-13:20	Pilot production of biomedical cell products by GMP standard – from formulation of the research problem to mass production. Mikhail Hotin, Center of Cell technologies, Institute of Cytology, Russian Academy of Sciences, Saint Petersburg
13:20-13:30	A Culture of Excellence for your stem cell needs: introduction to a complete product portfolio to support serum-free and xeno-free stem cell research from bench to clinic Yuliya Miropolski, Biological Industries (BI)

Round table 2 – Bioethics and regenerative medicine <i>Chair: Prof. Yelena V. Bryzgalina</i>	
12:00-12:15	Cells as an object of commodification Olga V. Popova, Institute of Philosophy of RAS, Moscow
12:15-12:30	Sociohumanitarian provision innovations in the regenerative medicine field Pavel D. Tyshenko, Institute of Philosophy of RAS, Moscow

12:30-12:40	<p>Bioethical aspects of biobanking: project experience of “Noah’s Arc” Pyotr A. Kamenskiy, faculty of biology of Lomonosov Moscow State University, Moscow</p>
12:40-12:50	<p>The bioethical principle of forming consent in the regenerative medicine field Yelena V. Bryzgalina, Lomonosov Moscow State University, Moscow</p>
12:50-13:00	<p>Regenerative medicine as technology and as biopolitics: in search of new anthropology Taras A. Varkhotov, Lomonosov Moscow State University, Moscow</p>
13:00-13:10	<p>Bioethics in regenerative medicine: an obstacle or a necessity? Kira Y. Alasania, Lomonosov Moscow State University, Moscow</p>
13:10-13:20	<p>Societal expectations of cell technologies development: will tissue engineering replace transplantology? Sergey Y. Shevchenko, Institute of Philosophy of RAS, Moscow</p>
13:20-13:30	<p>The concept of “quality of life” in regenerative medicine: the bioethical aspect Ekaterina M. Shkomova, Lomonosov Moscow State University</p>

POSTER SESSION 1
16 NOVEMBER 2017, THURSDAY

Stand Number	Presenting Autor	Poster Title
A-1	Victor Glebov	<u>Glebov VV</u> , Rodionova OM, Anikina EV, Pitkevich MU, Kulieva GA, Michailichenko KU. Morpho-biochemical aspects of muscular system lesion under various environmental impacts Moscow
A-2	Elena V. Abakushina	<u>Abakushina EV</u> , Denisenko MV, Kurtser MA. Ovular tissue cultivation as a new possibility for fertility retention in case of ovarian insufficiency Obninsk
A-3	Alexandr V. Khalyavkin	<u>Khalyavkin AV</u> . Decrease in stem cell activity – a reason or result of aging? Moscow
A-4	Ivan B. Filippenkov	<u>Filippenkov IB</u> , Stavchansky VV, Denisova AE, Ivanova KA, Limborskaya SA, Dergunova LV. Non-RNA-coding genes related to neurotransmission expression profiles in reversible brain ischemia rat model Moscow
A-5	Zinaina N. Zhuravleva	<u>Zhuravleva ZN</u> . Studying of synaptic contacts' setting between neurograft and brain by means of electron microscopy Moscow
A-6	Maria L. Churkova	<u>Churkova ML</u> . Reaction of rats' intestinal mucosal epithelium to injection of different amounts of melatonin Saint Petersburg
A-7	Vasily V. Sinyov	<u>Sinyov VV</u> , Sazonova MA, Ryzhkova AI, Galitsina EV, Postnov AU, Orekhov AN, Sobenin IA. Creation of hybrid lines with variable cumulative heteroplasmy level in mitochondrial genome mutations Moscow
A-8	Elena Usoltseva	<u>Usoltseva EO</u> , Ggzzyan AM, Niauri DA, Dzhemlyhanova LK Xenogeneic endometrial stem cells homing into injured and intact endometrium Saint Petersburg
A-9	Petr P. Nimiritsky	<u>Nimiritsky PP</u> , Makarevich OA, Eremichev RU, Efimenko AU, Makarevich PI. Micro-environmental recovery into cell layers increases MSC's regenerative potential Moscow
A-10	Roman Yu. Eremichev	<u>Eremichev RU</u> , Makarevich OA, Kulebyakin, KY, Alexandrushkina NA. Makarevich PI. Morphological changes in mesenchymal stromal endometrium cells while modelling of regenerative processes <i>in vitro</i> Moscow
A-11	Igor V. Vakhrushev	<u>Vakhrushev IV</u> , Rayeva OS, Subbot AM, Novikov IA, Antonov EN, Popov VK, Komlev VS, Namestnikova DD, Gubsky IL, Suhinich KK, Yarygin KN. The pulp of a deciduous tooth as a source of multipotent mesenchymal cells for regenerative medicine Moscow

A-12	Olga V. Anatskaya	<u>Anatskaya OV</u> , Shilina MA, Vinogradov AE, Alekseenko LL, Fridlyanskaya II, Grinchuk TM, Nikolsky NN. Ways to protect against transformation of human mesenchymal stem cells with genetic instability under the impact of sub-lethal heat shock Saint Petersburg
A-13	Maria A. Shilina	<u>Shilina MA</u> , Grinchuk TM, Alekseenko LL, Anatskaya OV, Vinogradov AE, Zenin VV, Nikolsky NN. Endometrial mesenchymal human stem cells <i>in vitro</i> Saint Petersburg
A-14	Anna G. Poleshko	<u>Poleshko AG</u> , Vasilevich IB, Volotovskiy ID. Low oxygen impact on spontaneous MSCs differentiation in culture Minsk, Republic of Belarus
A-15	Elena V. Vasina	<u>Vasina EV</u> , Kostunina VS, Goncharova NV, Severin IN, Petyovka NV. Mesenchymal stromal cells of human placenta support differentiation of hematopoietic CD34+ cord blood cells in the granulocytic-monocytic direction Minsk, Republic of Belarus
A-16	Anastasia V. Panova	<u>Panova AV</u> , Belyakova MB. Benefits of bovine serum application in adipogenic MSC differentiation procedures and in protocols of adipocytes' dedifferentiation Tver
A-17	Anastasia V. Kotova	<u>Kotova AV</u> , Shumeev AN, Zolina TL, Levchuk KA, Alexandrova LV, Ivolgin DA, Enuakashvili NI. Culture conditions for mesenchymal stem cells obtained from human umbilical cord optimization for cellular products' manufacturing Saint Petersburg
A-18	Lyudmila V. Alexandrova	<u>Alexandrova LV</u> , Shumeev AN, Zolina TL, Kotova AV, Ivolgin DA, Adylov SF, Enuakashvily NI. Mesenchymal stem cells of the umbilical cord: vitality retention in conditions of long-lasting transportation for clinical use Saint Petersburg
A-19	Elizaveta Yu. Moskaleva	<u>Moskaleva EY</u> , Semochkina YP, Rodina, AV, Vysotskaya OV, Glukhov AI, Arzumanov SS, Posypanova GA. Studying the possibility of cultured mesenchymal stem cells, isolated from various mouse tissues, malignant transformation to assess their safety in case of cell therapy applications Moscow
A-20	Elena S. Petrova	<u>Petrova ES</u> , Isaeva EN. Changes in Schwann cells of the sciatic nerve of a rat' proliferative activity after ligating and neural progenitor cells' injection Saint Petersburg
A-21	Irina Yu. Maklakova	<u>Maklakova IY</u> , Grebnev DY, Leontiev SL. Experimental study of combined transplantation of MMSC and HSC' effect on intestinal epithelium regeneration under the influence of extreme factors Ekaterinburg
A-22	Irina S. Kashapova	<u>Kashapova IS</u> , Kosovsky GY. Influence of extracellular matrix proteins on mesenchymal stromal cells' adhesive capacity Moscow
A-23	Polina D. Kotova	<u>Kotova PD</u> , Tarasov MV, Bystrova MF. Signaling processes initiated by agonists of purinergic receptors in human mesenchymal stem cells Puschino

A-24	Nikolay S. Bunenkov	<u>Bunenkov NS</u> , Kanunnikov MM, Komok VV, Golenko DD, Muslimov AR, Lepik, KV, Sergeev VS, Galibin OV, Nemkov AS. Autologous mesenchymal stem cells homing evaluation in rabbit models of myocardial infarction Saint Petersburg
A-25	Irina I. Marakhova	<u>Marakhova II</u> , Domnina AP, Vinogradova TA, Zemelko VI, Pugovkina NA, Shatrova AN. Changes in ionic homeostasis, associated with human mesenchymal stem cells' growth in culture Saint Petersburg
A-26	Irina E. Trubitsyna	<u>Trubitsyna IE</u> , Abdulatipova Z, Orlova YM, Vasnev OS, Gulyaev AS. MSCs' participation in the healing of stomach surgical wounds Moscow
A-27	Yuri S. Stafeev	<u>Stafeev YS</u> , Michurina SS, Vorotnikov AV, Menshikov MY, Parfyonova EV. IL-4 restores insulin signaling activation in adipocytes 3T3-L1 without affecting adipogenic differentiation Moscow
A-28	Margarita V. Lobanova	<u>Lobanova MV</u> , Ratushy AY, Buravkova LB. Effect of glucose deprivation on HIF-1α and HIF-3α genes expression in multipotent mesenchymal stromal cells at different oxygen concentrations Moscow
A-29	Maria G. Ratushniak	Posypanova GA, <u>Ratushniak MG</u> . MSCs' neurotrophins and cytokines secretion from variable mouse tissues and their influence on irradiated NSC survival Moscow
A-30	Anastasia V. Korel	Astakhova NM, <u>Korel AV</u> , Kirilova IA. Elaboration of isolation, cultivation and typing protocols for mesenchymal stem cells of human bone marrow Novosibirsk
A-31	Ekaterina Zubkova	<u>Zubkova ES</u> , Dergliev KV, Beloglazova IB, Tsokolaeva ZI, Boldyreva MA, Ratner EI, Menshikov MY, Parfenova EV. Urokinase effects on human mesenchymal stromal cells Moscow
A-32	Ekaterina Zubkova	<u>Zubkova ES</u> , Stafeev YS, Shevchenko EK, Tsokolaeva ZI, Boldyreva MA, Dergilev KV, Menshikov MY. Obtaining of genetically modified adipose tissue MSCs, producing SDF-1α and SCF, for application in regenerative medicine. Moscow
A-33	Natalia A. Petinati	<u>Petinati NA</u> , Drize NI, Risinskaya NV, Sudarikov AB, Firsova MV, Popova NN, Dubnyak DS, Koroleva OM, Kuzmina LA, Parovichnikova EN, Savchenko VG. Intraosseous multipotent mesenchymal stromal cells introduction in patients with graft failure after allogeneic transplantation of hematopoietic stem cells: analysis of the engraftment and subsequent restoration of hematopoiesis Moscow
A-34	Alexandra V. Meleshina	<u>Meleshina, AV</u> , Bystrova AS, Dudenkova VV, Klementieva, NV, Kulagin FA, Zagaynova EV Analysis of structural and functional parameters of mesenchymal stem cells during differentiation with the use of new methods of high resolution microscopy and fluorescent imaging Nizhny Novgorod
A-35	Natalia V. Andreeva	<u>Andreeva NV</u> , Garbuz DG, Evgeniev MB, Belyavsky AV. Impact of HSP70 protein and fibronectin on mesenchymal stem cells' proliferation Moscow

A-36	Veronica Yu. Sysoeva	<u>Sysoeva VY</u> , Tyurin-Kuzmin PA, Dyikanov D, Kalinina NI, Tkachuk VA. Localization of nestin-expressing cells in adipose tissue and their characteristics Moscow
A-37	Dmitry N. Pen'kov	<u>Pen'kov DN</u> , Egorov AD, Tkachuk VA. Prep1-transcription factor function in the process of mesenchymal stromal cells differentiation into adipocytes Moscow
A-38	Constantine Yu. Kulebyakin	Stepanova AV, Kochegura TN, Efimenko AY, Shestakova EA, Sklyanik IA, <u>Kulebyakin CY</u> . Mesenchymal stromal cells of adipose tissue adipogenic potential shift in the case of insulin resistance Moscow
A-39	Irina P. Savchenkova	<u>Vasil'eva SA</u> , Savchenkova IP. Sertoli cells' role in boar spermatogonia cultivation in methyl-cellulose Moscow
A-40	Christina V. Kitaeva	<u>Kitaeva KV</u> , Prudnikov TS, Gomzikova MO, Tazetdinova LG, Rizvanov AA, Solov'eva VV. Study of CD14+ monocytes interactions with stromal and tumor human cells while co-cultured <i>in vitro</i> Kazan
A-41	Elvira R. Akhmetzyanova	<u>Akhmetzyanova ER</u> , Zhuravleva MN, Galieva LR, Mukhamedshina YO. Influence of microglial cells transplantation on structural and functional parameters in rats with spinal cord injury Kazan
A-42	Luisa R. Galieva	<u>Galieva LR</u> , Shulman IA, Ogurtsov SV, Kostennikov AA, Garanina EE, Rizvanov AA, Mukhamedshina YO. Post-traumatic spinal cord reactions in pig with autologous mononuclear peripheral blood cells transplantation Kazan
A-43	Anastasia D. Voronova	<u>Voronova AD</u> , Stepanova OV, Chadin AV, Valikhov MP, Reshetov IV, Chekhonin VP. Olfactory sheath cells in treatment of post-traumatic cysts of the spinal cord Moscow
A-44	Vyacheslav M. Mikhailov	<u>Mikhailov VM</u> , Sokolova AV, Kaminskaya EV. Bone marrow replacement as a way of therapy for monogenic diseases Saint Petersburg
A-45	Yaroslava M. Chalenko	Chalenko YM, Sobyenin KA, Sysolyatina EV, Lavrikova AY, Ermolaeva SA. Use of bacterial agonist of the hepatocyte growth factor receptor to accelerate liver regeneration in acute toxic hepatitis Moscow
A-46	Sergey I. Mozgovoy	<u>Mozgovoy SI</u> , Keruchenko, MA, Nazarov AN, Kononov AV. Molecular and cellular restructuring of the gastric mucosa in atrophic gastritis as the implementation of the launch pad for tumor growth Omsk
A-47	Alena D. Zolotarenko	<u>Zolotarenko AD</u> , Bruskin SA. Transcription factor FRA1 leads to inflammation amplification and plaques formation in psoriasis. Moscow
A-48	Alisa P. Domnina	<u>Domnina AP</u> , Novikova PV, Obidina YV, Nikolsky N. N. Stem cells of different origin' application in experimental model of Asherman's syndrome Saint Petersburg

A-49	Alexandra V. Asaturova	Asaturova AV. Cytological features of cellular composition in the uterine tube smears in cases of intraepithelial precancerous lesions Moscow
A-50	Artyom A. Nikolaev	<u>Nikolaev AA</u> , Markitantova YV, Grigoryan EN. Characterization of some molecular-genetic and epigenetic events during retinal regeneration in Urodella by RPE reprogramming Moscow
A-51	Margarita Yu. Komarova	<u>Komarova MY</u> , Ivanova OA, Galenko, VL, Lelyavina TA, Dmitrieva RI. Chronic heart failure effect on the functional properties of skeletal muscle and resident stem cells of muscle tissue Saint Petersburg
A-52	Olga Savel'eva	<u>Savel'eva OE</u> , Tashireva LA, Isaeva AV, Rodionov EO, Zavgorodskaya KO, Perelmutter VM. Estimation of premetastatic niche formation conditions for lung cancer Tomsk
A-53	Lubov' Tashireva	<u>Tashireva LA</u> , Savel'eva OE, Denisov EV, Buldakov MA, Isaeva AV, Zavyalova MV, Perelmutter VM. Single tumor stem cells' subpopulations heterogeneity in breast cancer tissue and its relationship with lymphogenous metastasing Tomsk
A-54	Tatyana P. Sataeva	<u>Sataeva TP</u> , Zadnipryany IV. M2-phenotype macrophages' regenerative effect in experimental alcoholic nephropathy Simferopol
A-55	Maxim Balyasin	Baranovsky D. Critical bone defects reconstruction with the use of autologous mononuclear fraction of bone marrow obtained intraoperatively
A-56	Dmitry A. Khrupa	<u>Khrupa DA</u> , Khrupa AI, Mal'chevsky VA. To the issue of possible prospects of using stem cells in post-traumatic coxarthrosis treatment Tyumen
A-57	Maria A. Surovtseva	<u>Surovtseva MA</u> , Poveshchenko OV, Lykov AP, Chernyavsky AM, Fomichev AV, Bondarenko NA, Kim II, Kareva YE, Tarkova AR. Erythropoietin's influence on the number of cells co-expressing the EPO-receptor in patients with chronic heart failure Novosibirsk
A-58	Romanova Irina V.	<u>Romanova IV</u> , Mikhrina AL, Mikhailova EV, Savel'eva LO. CART-peptide engagement in reparative processes of the adult rat brain after focal ischemia Saint Petersburg
A-59	Polina S. Klimovich	<u>Klimovich PS</u> , Semina EV., Karagyaur MN, Rysenkova KD, Rubina KA. Nerve regeneration depends on the urokinase receptor interaction with $\alpha 5\beta 1$-integrins Moscow
A-60	Tatyana V. Denisenko	<u>Denisenko TV</u> , Sorokina IV, Zhivotovsky BD. Mitotic catastrophe relationship with autophagy: a new approach for anticancer therapy development Moscow
A-61	Polina V. Maksimchik	<u>Maksimchik PV</u> , Abdrakhmanov AA, Zhivotovsky BD, Gogvadze VG. Influencing on the energy metabolism as a target for tumor cell death induction Moscow

A-62	Alexandra Yu. Egorshina	<u>Egorshina AY</u> , Kopeina GS, Zhivotovsky BD, Lavrik IN. Caspase-2 role in ovarian cancer cells' death on the way of mitotic catastrophe Moscow
A-63	Gelina S. Kopeina	<u>Kopeina GS</u> , Zamaraev AV, Zhivotovsky BD, Lavrik IN. Caspase-2 as an apoptosis-initiating protein in ovarian carcinoma cells after DNA damage Moscow
A-64	Vyacheslav V. Senichkin	<u>Senichkin VV</u> , Kopeina GS, Lavrik IN, Zhivotovsky BD. Cultivation in serum-free medium enhances cisplatin-induced programmed tumor cell death independently of autophagy Moscow
A-65	Anastasia V. Selenina	<u>Selenina AV</u> , Sinenko SA, Zaifert U, Tomilin AN, Tsimokha AS. Ubiquitin-proteasomal system components' role in the process of cellular reprogramming of mammalian cells Saint Petersburg
A-66	Alexei G. Menzorov	Menzorov AG. Collection of pluripotent human and mammalian cell cultures for general biological and biomedical purposes Novosibirsk
A-67	Guzel I. Davletshina	<u>Davletshina GI</u> , Sherstyuk VV, Zakyan PM. Directed introduction of deletions in the genome of rat fibroblasts for functional studies of microRNAs' role in reprogramming into a pluripotent state Novosibirsk
A-68	Diana Y. Aleinik	<u>Aleinik DY</u> , Gubareva EA, Egorikhina MN, Charykova IN, Rubtsova YP, Kuevda EV, Gumenyuk IS, Sotnichenko AS. Tissue-engineered pig skin constructions: development of decellularization and MMSC recovering protocols Krasnodar
A-69	Aizhan K. Surumbaeva	<u>Grigor'eva EV</u> , Malankhanova TB, Surumbaeva A, Pavlova SV, Malakhova AA, Zakyan SM. Creation of the protocol of human induced pluripotent stem cells directed differentiation into the middle spine neurons with the possibility of these cells' transgenic precursors continuous cultivation Novosibirsk
A-70	Georgy D. Sagaradze	<u>Sagaradze GD</u> , Efimenko AY, Makarevich OA, Basalova NA, Nimiritsky PP, Makarevich PI, Kirpatovsky VI, Okhobotov DA, Osidak EO, Domogatsky SP, Akopyan ZA, Kamalov AA. Human mesenchymal stem/stromal cells (MSCS) secretome as the basis for new drugs and biomaterials for regenerative medicine creation Moscow
A-71	Denis G. Davydov	Davydov DG. Scar reconstruction after allogeneic multipotent stromal cells of adipose tissue transplantation Saint Petersburg
A-72	Mikhail E. Sokolov	Sokolov ME, Markosyan VA, Safiullof ZZ. Cell-mediated gene therapy of cerebral stroke Kazan
A-73	Olga B. Nuzova	<u>Nuzova OB</u> , Stadnikov AA. Immunocytochemical identification of the proapoptotic protein p53 and antiapoptotic protein bcl-2 expression in substantiation of new method for trophic ulcers of the lower extremities treatment Orenburg

A-74	Daria Chulpanova	<u>Chulpanova DS</u> , Kolobynina KG, Solov'eva VV, Rizvanov AA. Obtaining mesenchymal stem cells, genetically modified by tumor suppressor genes, and recombinant proteins' expression analysis <i>in vitro</i> Kazan
A-75	Irina A. Kirilova	Korel AV, Astakhova NM, Shchelkunova EI, <u>Kirilova IA</u> . Morpho-functional properties of osteogenic cells for biomedical cell products' development Novosibirsk
A-77	Olga Sergeeva	<u>Sergeeva OV</u> , Kurochkin II, Malyavko AN, Zatsepin TS. Long non-coding RNA LL35 is a new regulator of gene expression in mouse liver Moscow
A-78	Maria Sokolova	Gavrichenko AV, Lopatina EV, <u>Sokolova MG</u> , Pennijajnen VA, Kipenko AV, Pasatetskaya NA. Neurotrophic action of comenic acids in organotypic tissue culture in the presence of serum from patients with spinal muscular atrophy type 2 Saint Petersburg
A-79	Valeria V. Solov'eva	Solov'eva VV, Deev RV, Isaev AA, <u>Rizvanov AA</u> . Plasmid encoding SDF-1α and VEGF165 genes' angiogenic properties <i>in vitro</i> investigation Kazan
A-80	Alexandra Stepanova	<u>Stepanova AV</u> , Kulebyakin KY, Karagyaur MN, Balatsky AV, Kochegura TN, Kazarnovsky MS, Shestakova MV, Dedov II, Tkachuk VA. Creation of a model to study the effect of PPARG, AMPKA1 and AMPKG2 gene polymorphisms on adipogenic differentiation and sensitivity of human mesenchymal stromal cells to antidiabetic drugs Moscow
A-81	Elena G. Koroleva	Dergacheva TI, <u>Shurlygina AV</u> , Melnikova EV, Gritsyk OB, Tenditnik MV, Koroleva EG, Poveshchenko OV, Konenkov VI. Characterization of female Wistar rats immune organs in cell therapy of internal genital organs experimental chronic inflammation Novosibirsk
A-82	Ruslan F. Masgutov	Masgutov RF, <u>Chekunov MA</u> , Salikhov RZ, Teplov OV, Plakseychuk YA, Galimov DK, Teplova YS, Masgutova GA, Zhuravleva MN, Rizvanov AA. Clinical application of direct gene therapy in cases of slow consolidation of fractures and tubular bones' pseudoarthrosis in humans Kazan
A-83	Daniil Vaypan	<u>Vaypan DV</u> , Pen'kov DN, Grigoriev AP, Tkachuk VA. Prep1 and Pbx1 transcription factors in mesenthermal embryonic stem cells' differentiation Moscow
A-84	Alina V. Martynova	Martynova AV. MicroRNAs as an autoimmune process regulator in case of streptococcal infection Vladivostok
A-85	Anastasia A. Gorkun	<u>Gorkun AA</u> , Zurina IM, Shpichka AI, Koroleva AV, Kosheleva NV, Timashev PS, Butnaru DV, Repin VS, Saburina IN. Comparative study of MMSC UB and ATSC spheroids' angiogenic potential in fibrin gel Moscow
A-86	Andrey Yu. Ratushny	<u>Ratushny AY</u> , Ezdakova MI, Buravkova LB. Mesenchymal stromal cells' angiogenic potential after long-term routine passage in conditions with different oxygen content Moscow

A-87	Georgy V. Sharonov	<u>Sharonov GV</u> , Balatskaya MN, Goncharuk SA, Beloglazova IB. Lipid-mediated interactions between navigation receptors, their mechanisms and possible role in cell morphogenesis Moscow
A-88	Andrey A. Temnov	<u>Kochkina AV</u> , Temnov AA. Influence of peroxiredoxin 6 and mesenchymal stem cells' paracrine factors on skin regeneration after mechanical and chemical injuries. Moscow
A-89	Alibek Abdrakhmanov	<u>Abdrakhmanov AA</u> , Maksimchik PV, Gogvadze VG, Zhivotovsky BD. Tumor cells' sensitivity to therapy examination under hypoxic conditions Moscow
A-90	Roman A. Akasov	<u>Akasov RA</u> , Leko MV, Burov SV, Markvicheva EA. RGD-dependent normal cells aggregation as a new approach for tissue engineering Moscow
A-91	Anatoly V. Kubyshkin	Mikhailichenko VY, <u>Kubyshkin AV</u> , Fomochkina II, Tyukavin AI. Mesenchymal multipotent stem cells' application in treatment of experimental myocardial infarction efficiency Simferopol
A-92	Valery G. Sergeev	<u>Sergeev VG</u> , Chuchkov VM, Zakolyukina ES. Neuroinflammation of varying intensity's influence on neural stem cells in choroid plexus of the brain induction Izhevsk
A-93	Cristina Busuioc	<u>Busuioc C.</u> , Miu D., Jinga S. Vitroceramic Coatings Obtained by Means of Laser Ablation, with Applications in Dentistry and Orthopedics Bucharest, Romania
A-94	Alexandra Yu. Burmatova	Burmatova AY. TGF-β growth factor detection after implantation of needles with nanostructured coatings in osteoporotic bone Ekaterinburg
A-95	Konstantin V. Shevyrev	Onoprienko GA, Voloshin VP, Shevyrev KV Regeneration of bone tissue: theoretical and clinical aspects Yuzhno-Sakhalinsk
A-96	Polina I. Bobyleva	<u>Bobyleva PI</u> , Gornostaeva AN, Andreeva ER. Short hypoxic stress inhibits production of proinflammatory mediators by macrophages Moscow
A-97	Vera S. Chernonosova	<u>Chernonosova VS</u> , Stepanova OA, Kuznetsov KA, Kvon RI, Karpenko AA, Laktionov PP. Proteins and low molecular weight drugs delivery with matrices based on polycaprolactone manufactured by electrospinning Novosibirsk
A-98	Vasily A. Mikhanov	<u>Mikhanov VA</u> , Shurygina EI. Morpho-functional basics of thyroid-parathyroid regulation of bone tissue regeneration after fractures Orenburg
A-99	Fedor A. Fadeev	<u>Fadeev FA</u> , Sulimov AV, Lugovets DV, Gubaeva, OV, Sazonov SV, Leopoldovich LS. Application of automated cultivation technology in obtaining dermal fibroblasts for clinical use Ekaterinburg

A-100	Ilya D. Klabukov	Lundup AV, Tenchurin TH, Shepelev AD, <u>Klabukov ID</u> , Mudryak DL, Titov AS, Balyasin MV, Lyashenko YS, Chvalun SN, Dyuzheva TG. Effect of the biodegradable matrix modified by growth factors on cell proliferation <i>in vitro</i> and angiogenesis stimulation <i>in vivo</i> Moscow
A-101	Tatiana G. Dyuzheva	Dyuzheva TG, Platonova LV, Kuimov AN, Lundup AV, <u>Klabukov ID</u> , Mudryak, DL, Tokarev MV, Galperin EI. Regenerating and growing liver extract's effect on toxic liver damage <i>in vivo</i> and proliferation of hepatocytes in cell culture Moscow
A-102	Nadezhda V. Revina	Revina NV, <u>Lyas'kina EV</u> , Kostin SV.. Wound dressings based on bacterial cellulose for regenerative processes Saransk
A-103	Vladislav S. Tolstoukhov	<u>Tolstoukhov VS</u> , Nikishin DV, Efimova IV, Baulin AV. Biologically inert polymer of natural origin on keratine basis Penza
A-104	Yulia V. Markitantova	<u>Markitantova YV</u> , Akberova CI, Ryabtseva AA, Stroeva OG. Prevention of corneal and conjunctival apoptotic lesions, induced by acute hypoxia <i>in vivo</i>, development through actipole in rats Saint Petersburg
A-105	Yulia S. Kornienko	<u>Kornienko YS</u> , Smirnova IS, Pugovkina NA, Zenin VV, Nikolsky NN, Lyublinskaya OG. Antioxidants' influencing on the process of self-renewal in human mesenchymal stem cells Saint Petersburg
A-106	Enrica Favaro	Favaro E., Lopatina T., Occhipinti S., Giovarelli M., Romagnoli R., Porta M., Camussi G., Zanone M. Extracellular vesicles from adipose-derived stem cells activate a pro-inflammatory phenotype in t cell from type 1 and type 2 diabetic patients Turin, Italy
A-107	Timofey E. Grigoriev	<u>Grigoriev T.E</u> , Lukanina K.I., Antipova K.G., Zagoskin Yu.D., Krashennnikov S.V., Chvalun S.N. Highly porous materials for tissue engineering Moscow
A-108	Anh Vu Truong	Li K., Truong A.V., Chang Y., Hu Y. Using Baculovirus-Mediated miR-214 Sponges Switch Osteoporotic ASCs from Adipogenesis to Osteogenesis for Osteoporotic Bone Defects Repair Taiwan
A-109	Sofia P. Lezhava	<u>Lezhava S.P.</u> , Kudryavtseva V.L., Zakharova A.A., Pershina A.G., Atochuna-Vasserman E.N. Systems for target delivery of drugs based on neutrophils and polyelectrolite microcapsules Tomsk
A-110	Yulia V. Khramova	<u>Khramova Yu.V.</u> , Bagaeva T.S., Nikishin D.A., Kosheleva N.V., Semenova M.L. Influence of ovarian stroma on functional status of ovarian follicles in 3D culture Moscow
A-111	Andrey V. Skvortsov	Galibin O.V., Shevtsov M.A., <u>Skvortsov A.E.</u> , Gen'batch O.G. Biomechanical construct for fixation of lower limb prosthetics Saint Petersburg

A-112	Yekaterina P. Kalabusheva	<u>Kalabusheva Ye.P.</u> , Chermnykh E.S., Ryabini A.A., Vorotelyak Ye.A. Model and optimization of hair follicle bud in culture <i>Moscow</i>
A-113	Oksana Yu. Lisina	<u>Lisina O.Yu.</u> , Moskovtsev A.A., Surin A.M. Dynamics of neuronal network morphology in mechanically injured primary neurons culture <i>Moscow</i>
A-114	Yekaterina A. Slobodkina	<u>Slobodkina Ye.A.</u> , Nimiritsky P.P., Dolinkin A.O., Makarevich P.I., Parfyonova Ye.V. Development of a gene therapy plasmid-based constructs with HGF and VEGF165 genes <i>Moscow</i>
A-115	Yekaterina A. Ivukina	<u>Ivukina Ye.A.</u> , Istranov L.P., Istranova Ye.V., Churbanov S.N., Shavkuta B.S., Zaytseva N.N., Kuznetsova D.S., Kurkov A.V., Melnikov P.A., Vishnevsky D.A., Shekhter A.B., Zagaynova Ye.V., Rochev Yu.A., Timashev P.S. Xenoprosthetics from decellularized bovine pericardia for tissue-engineering of internal layers with regulative mechanical and functional properties <i>Moscow</i>
A-116	Yekaterina Samoylova	<u>Samoylova Ye.M.</u> , Kal'sin V.A., Baklaushev V.P. Reprogramming of MSC to neural using small molecules <i>Moscow</i>
A-117	Elena Chernykh	<u>Chernykh E.R.</u> , Shevela E.Ya., Starostina N.M., Morozov S.A., Davydova M.N., Ostanin A.A. Therapeutic potential of macrophages in rehabilitation of cerebral stroke patients <i>Novosibirsk</i>
A-118	Mikhail Yu. Men'shikov	Men'shikov MYu, Stafeev YuS, Michurina SS, Zubkova YeS, Beloglazova IB, PARfyonova YeV. Pharmacological modulation of macrophage inflammatory status and their paracrine influence on adipocyte insulin sensitivity <i>Moscow</i>
A-119	Maria A. Boldyreva	<u>Boldyreva MA</u> , Beloglazova IB, Zubkova ES, Shevchenko EK, Makarevich PI, Karagyaur MN, Ratner EI, Parfyonova YeV. Gene therapy with hepatocyte growth factor stimulates regeneration of peripheral nerve <i>Moscow</i>

POSTER SESSION 2
17 NOVEMBER 2017, FRIDAY

Stand Number	Presenting Autor	Poster Title
B-1	Mikhail V. Chernorutsky	<u>Chernorutsky MV</u> , Kostyuk NV. Studying the possibility of adipocytes re-differentiation <i>in vitro</i> Tver
B-2	Oksana A. Ivanova	<u>Ivanova OA</u> , Komarova MY, Khromova NV, Kostareva AA, Dmitrieva RI. Coordinated regulation of Pro-myogenic and Pro-adipogenic signaling pathways in myoblast line C2C12 Saint Petersburg
B-3	Ivan N. Ponomarev	<u>Vasa AY</u> , Borovkova NV, Makarov MS, Fain AM, Ponomarev IN. Experimental stimulation of the osteogenesis by injectable form of collagen type 1 graft and platelet-rich plasma Moscow
B-4	Maya B. Belyakova	<u>Belyakova MB</u> , Kostyuk NV, Egorova EN. Multipotency preservation phenomenon in cells of adipose tissue after some cycles of adipogenic differentiation and dedifferentiation Tver
B-5	Larisa M. Obukhova	<u>Obukhova LM</u> , Erlykina EI, Medyanik IA, Yashin KS, Pimenov VG, Evdokimov II. Role of micro – and macroelements in proliferation of neural cells Nizhny Novgorod
B-6	Maria N. Evseeva	<u>Evseeva MN</u> , Shishkina AS, Sheptulina AF, Rubtsov YP. Obtaining of cholangiocytes carrying the stem cell marker Lgr5 Moscow
B-7	Maria A. Kulebyakina	<u>Kulebyakina MA</u> , Semina EV, Rubina KA, Tkachuk VA. Detection of T-cadherin and urokinase receptor expression in embryonic mouse brain Moscow
B-8	Mikhail G. Akimov	<u>Akimov MG</u> , Ashba AM, Gretskaya NM, Bezuglov VV. N-acyldopamines are regulators of proliferation and differentiation processes Moscow
B-9	Nikolay M. Kapranov	<u>Kapranov NM</u> , Davydova YO, Galtseva IV, Petinati NA, Bigildeev AE, Drize NI, Kuzmina LA, Parovichnikova EN, Savchenko VG. Studying interferon gamma and interleukin 1 beta effects on the expression of HLA-ABC , HLA-DR and ICAM-1 in multipotent mesenchymal stromal cells Moscow
B-10	Reseda A. Akhmadishina	<u>Akhmadishina RA</u> , Kuznetsova EV, Sadrieva GR, Sabirzyanova LR, Nizamov IS, Ahmedova GR, Nizamov ID, Abdullin TI. Antioxidant activity of tripeptide glutathione salts with dithiophosphoric acids <i>in vitro</i> Kazan
B-11	Leysan G. Tazetdinova	<u>Tazetdinova LG</u> , Solov'eva VV, Martynova EV, Gomzikova MA, Rizvanov AA. Investigation of cytokine profile and anti-tumor activity of mesenchymal stem cells loaded with the drug cisplatin Kazan
B-12	Anastasia Y. Stolbovaya	<u>Stolbovaya AY</u> , Smirnov IV, Krutetskaya IY, Gryazeva IV, Samoylovich MP, Klimovich VB. Monoclonal antibodies against endoglin slow down the migration of endothelial cells <i>in vitro</i> Saint Petersburg

B-13	Svetlana A. Khozyainova	Salikhova TI, <u>Khozyainova SA</u> , Siraeva ZY, Ergeshov AA, Abdullin TI. Cells of line ATDC5 differentiation in the presence of peptide factors Kazan
B-14	Elena Yu. Ivanova	<u>Ivanova E.Y.</u> , Selenina A.V., Bakhmet E.I., Sinenko S.A., Tomilin A.N., Tsimokha A.S. The Investigation of Proteasomes and Immunoproteasomes Involvement in Mammal Cell Differentiation Saint-Petersburg
B-15	Daria S. Semenova	<u>Semenova DS</u> , Malashicheva AB. Dose-dependent role of Notch signal pathway's various components in stem cells' osteogenic differentiation Saint Petersburg
B-16	Maria A. Smetanina	<u>Smetanina MA</u> , Zakharova IS, Sevostyanova KS, Filippenko ML. Expression of OXA1L and BCS1L genes, determining ATP metabolism, involved in varicose vein disease pathogenesis, by cells of the venous wall Novosibirsk
B-17	Irina B. Beloglazova	<u>Beloglazova IB</u> , Zubkova ES, Koptelova NV, Dyikanov DT, Dergliev KV, Ratner EI, Parfenova EV. Urokinase system is the proteolytic regulator of the vascular network assembly when co-culturing endothelial cells with mesenchymal stem cells Moscow
B-18	Yuliya I. Khorol'skaya	<u>Khorol'skaya YI</u> , Aleksandrova OI, Yudintseva NM, Lobov IB, Ignat'eva EV, Urusova ME, Blinova MI. Investigation of soluble recombinant protein Dll4-Fc effect on endothelial cells' functional activity in different culture conditions Saint Petersburg
B-19	Yulia S. Ivanova	<u>Ivanova YS</u> , Pugovkina NA, Nicholsky NN, Lyublinskaya OG. Antioxidants' impact on self-renewal in embryonic stem cells Saint Petersburg
B-20	Svetlana Yu. Burda	<u>Burda YE</u> , Nadezhdin SV, Zubareva EV, Pokrovsky MV, Kulikovskiy VF, Burda SY, Shirina MS. Investigation of reparative and regenerative properties of biologically active substances of cellular origin Belgorod
B-21	Alexandra I. Rostovtseva	<u>Karagyaur MN</u> , Stambolisky DV, Balabanyan VY, Klimovich, PS, Rostovtseva AI, Syomina, EV. Development of genetic construct encoding brain-derived neurotrophic factor and urokinase plasminogen activator, to stimulate post-traumatic reinnervation Moscow
B-22	Maxim N. Karagyaur	<u>Karagyaur MN</u> , Dyikanov DT, Vasil'ev, PA, Tyurin-Kuzmin PA, Kalinina NI, Rubtsov YP. New secreted single-chain antibody blocking IL-2 binding to high-affinity receptor that contains a subunit of IL-2Ra (CD25) Moscow
B-23	Natalia V. Nizyaeva	<u>Nizyaeva NV</u> , Sukhacheva TV, Serov RA, Kulikova GV, Nagovitsyna MN, Pavlovich SV, Shchegolev AI. Immunohistochemical and ultrastructural features of placental telocytes in preeclampsia Moscow
B-24	Elizaveta Ya. Podolyak	<u>Podolyak EY</u> , Kedrov AV., Lazutkin AA, Enikolopov GN Memantine's effect on hippocampal neurogenesis in adult animals after irradiation. Moscow
B-25	Galina Kulikova	<u>Kulikova GV</u> , Nizyaeva NV, Nagovitsyna MN, Shchegolev AI. TLR4 and Tollip inhibitor expression in placenta in early and late pre-eclampsia Moscow

B-26	Alexandr P. Lykov	Lykov AP, Poveshchenko OV, Surovtseva MA, Bondarenko NA, Kim II. Influence of extracellular matrix on morphological and functional properties of endothelial progenitor cells and mesenchymal stem cells Novosibirsk
B-27	Alexander P. Lykov	<u>Lykov AP</u> , Poveshchenko OV, Chernyavsky AM, Fomichev AV, Surovtseva MA, Bondarenko NA, Kim II, Kareva YE, Tarkova AR. Characterization of cellular graft for indirect myocardial revascularization Novosibirsk
B-28	Yuri M. Poluektov	<u>Poluektov YM</u> , Petrushanko IY, Mitkevich VA, Lakunina VA, Undrovinas NA, Shirinsky VP, Makarov AA. Thiol range compounds support contractility of cardiomyocytes in hypoxic conditions Moscow
B-29	Anastasia K. Zaitseva	<u>Zaitseva AK</u> , Khudyakov AA, Karpushev AV, Malashicheva AB, Kostareva AA. Role of protein kinase A signaling pathway's stimulation in development and therapy of hereditary heart diseases Saint Petersburg
B-30	Mikhail A. Konoplyannikov	<u>Konoplyannikov MA</u> , Kalsin VA, Konoplyannikov AG. Inhibitory effect of salinomycin and its complex with nanoparticles on tumor growth and metastasing Obninsk
B-31	Kamila R. Valetdinova	<u>Valetdinova KR</u> , Ovechkina VS, Grigor'eva EV, Maretina MA, Kiselev AV, Baranov VS, Medvedev SP, Zakyan SM. Investigation of CRISPR/Cas9 application for cellular model of spinal muscular atrophy Novosibirsk
B-32	Sophia Pavlova	<u>Pavlova SV</u> , Milevskaya EA, Dement'eva EV, Chepeleva EV, Sergeevichev DS, Zakyan SM. Monitoring of rats' cardiac mesenchymal cells transplantation into peri-infarction area of myocardium with the use of luciferase reporter system Novosibirsk
B-33	Anastasia M. Subbot	<u>Subbot AM</u> , Gabashvili AN, Nesterova TV. Primary cultures of the anterior segment of the eye tissues as a material for cell therapy and a framework for a model system for basic research in ophthalmology Moscow
B-34	Evgeny Kuvyrkov	<u>Kuvyrkov E.</u> , Skorb E., Ulasevich S., Brezhneva N., Kosmacheva S.M., Potapnev M.P., Belyasova N.A. The biomaterial systems on the basis of mesoporous titanium dioxide coatings for a human mesenchymal stem cells study Minsk, Belorussia
B-35	Alla V. Rodina	<u>Rodina AV</u> , Saprykin VP, Gorshkova LB, Tenchurin TK, Moskaleva EY. Cells' integration dynamics into three-dimensional implanted matrices of polylactide with various topographic structure Moscow
B-36	Alexandr S. Sotnichenko	<u>Sotnichenko AS</u> , Gubareva EA, E. Kuevda EV, Gumenyuk IS, Nakokhov RZ, Orlov SV. Problem of decellularized matrices recovery from tubular and hollow organs, for example, from heart and esophagus of non-anthropoid primates Krasnodar
B-37	Yuliya O. Fedorova	<u>Zhurbina NN</u> , Kurilova UE, Gerasimenko AY. Investigation of biocompatibility of three-dimensional nanocomposite bioconstructs for tissue engineering Moscow

B-38	Karina D. Rysenkova	Rysenkova KD, Shmakova AA, <u>Semina EV</u> , Rubina KA, Karagyaur MN, Rubtsov YP, Dyikanov DT, Tkachuk VA. CRISPR/CAS9 technology application for shutoff the urokinase receptor gene expression in neuroblastoma Moscow
B-39	Dar'yana V. Chesnokova	<u>Chesnokova DV</u> , Zharkova II, Kuznetsova ES, Bonartsev AP. Mesenchymal stem cells' growth on matrices and microspheres of poly-3-hydroxybutyrate Moscow
B-40	Alexander V. Kriventsov	<u>Kriventsov AV</u> , Alexandrov VN, Mikhailova EV, Popryaduhin PV, Yudin VE, Sidorin VS, Khubulava GG. Hybrid prosthesis as a possible alternative to prostheses recovered from decellularized aorta and bioresorbable material Saint Petersburg
B-41	Alexander A. Zhloba	<u>Zhloba AA</u> , Subbotina TF, Smolina NA, Khudyakov AA, Kostareva AA. Myogenic differentiation assessment after the dynamics of arginine metabolites Saint Petersburg
B-42	Yulia V. Gelm	Abakushina EV, <u>Gelm YV</u> , Pasova IA, Neprina GS, Kudryavtsev DV, Kaprin AD. Development of cell immunotherapy approach with cytokine-induced killer cells in oncology Obninsk
B-43	Zalina Z. Gonikova	<u>Gonikova ZZ</u> , Nikolskaya AA, Sevast'yanov VI. Application of adoptive transfer approach for the comparative evaluation of bone marrow cells and complex of biologically active components isolated from the latter's morphoregulatory potential Moscow
B-44	Anna I. Lebedeva	<u>Lebedeva AI</u> , Muslimov SA, Afanas'ev SA, Popov SV, Kondratieva DS. Myocardium regenerative potential induced by allogeneic biomaterial Moscow
B-45	Dmitry I. Suchkov	<u>Suchkov DI</u> , Pavlov AV. Reparative osteogenesis stimulation by using incubated ground coral of the Acropora genus in experimental model of plate osteosynthesis Ryazan
B-46	Natalia V. Baranova	<u>Baranova NV</u> , Kirsanova LA, Bubentsova GN, Sevastianov VI. Microheterogenous collagen-containing hydrogel as a matrix for isolated Langerhans (pancreatic) islets of rat pancreas Moscow
B-47	Anna Pankina	<u>Pankina AP</u> , Nemets EA, Sevastianov VI. Influence of collagen matrices 2D structure stabilization technique on samples' resorption and cytotoxicity Moscow
B-48	Anna A. Gryadunova	<u>Gryadunova A.A.</u> , Mironov V.A. Tensiometric Estimation of Material Properties of Chondrospheres Moscow
B-49	Tatyana B. Bukharova	<u>Bukharova TB</u> , Leonov GE, Vasil'ev AV, Kuznetsova VS, Galitsyna EV, Zagoskin YD, Grigor'ev TE, Chvalun SN, Goldstein DV, Kulakov AA. Comparative evaluation of polylactide materials biocompatibility in an <i>in vitro</i> model Moscow
B-50	Nikolay N. Skaletsky	<u>Skaletskaya GN</u> , Skaletsky NN, Kirsanova LA, Baranova NV, Bubentsova GN, Sevastianov VI. Implantation of tissue-engineered pancreas constructs to rats with experimental diabetes mellitus Moscow

B-51	Tatyana S. Demina	<u>Demina TS</u> , Bardakova KN, Minaev NV, Timashev PS, Akopova TA. Matrices with a given architecture based on chitosan copolymers with oligolactides: laser microstereolithography Moscow
B-52	Sergey V. Nadezhdin	<u>Nadezhdin SV</u> , Burda YE, Zubareva EV, Ivanov MB, Volkovnyak NN, Belyaeva VS, Movchan E. Mesenchymal stem cells' proliferative activity during colonization of three-dimensional titanium matrix Belgorod
B-53	Anton Popov	<u>Popov AL</u> , Ivanov VK. Prospects and problems of nanocrystalline cerium dioxide (CeO₂) application in cell technologies and regenerative medicine Moscow
B-54	Elena I. Schelkunova	<u>Schelkunova EI</u> , Voropaeva AA. Osteoarthritis <i>in vitro</i> model as a biomedical cell product Novosibirsk
B-55	Petr A. Vasiliev	<u>Karagyaur MN</u> , Vasiliev PA, Dyikanov DT, Rysenkova KD, Syomina EV, Kulebyakin KY, Tyurin-Kuzmin PA, Alexandrushkina NA, Shmakova AA, Rubtsov YP. CRISPR/Cas9-mediated effective genes' shutoff technique in unstable karyotype cell populations Moscow
B-56	Aryuna P. Tsybdenova	<u>Tsybdenova AP</u> , Ivanova YV, Alekseeva EA, Kolleker AL, Khangajinov AA, Khitrikheev VE, Dashinimaev EB. Collagen-laminin matrices application for regenerative tissue genesis Ulan-Ude
B-57	Zinaida B. Kvacheva	<u>Kvacheva ZB</u> , Vasilevich IB, Poleshko AG, Pinchuk SV, Chekina AY, Marchenko LN, Volotovskiy ID. Stem cells from eye tissues' monolayer cultures preparation optimization and standardization as they serve as biomedical cell products for ophthalmological purposes Minsk, Republic of Belarus
B-58	Anastasia A. Malakhova	Malakhanova TB, <u>Malakhova AA</u> , Zakyan SM. Genome editing tools' optimization for cell models of Huntington's disease production Novosibirsk
B-59	Farida R. Sadykova	<u>Sadykova FR</u> , Vorob'ev VV, Abdullin TI. Development and testing of composite cryogels based on nano-sized hydroxyapatite Kazan
B-60	Irina I. Selezneva	<u>Selezneva II</u> , Ermakov AM, Zaitsev VV, Surmenev RA. Porous matrices based on polycaprolactone and modified hydroxyapatite nanoparticles for bone tissue defects recovery Puschino
B-61	Olga I. Alexandrova	<u>Alexandrova OI</u> , Khorol'skaya YI, Okolov IN, Dubovikov AS, Bezushko AV, Churashov SV, Chernysh VF, Panova IE, Blinova MI. Capabilities of cell technologies for corneal regeneration Saint Petersburg
B-62	Irina G. Starostina	<u>Starostina IG</u> , Solov'eva VV, Shajmardanova AA, Agliullina DR, Isaev AA, Deev RV, Rizvanov AA. Analysis of dysferlin ectopic expression effect on the HEK293A cells proliferative activity after electroporation Kazan

B-63	Dmitry A. Dolgushkin	<u>Dolgushkin DA</u> , Volova LT, Terteryan MA, Boltovskaya VV, Kulagina LN. Experimental studies and a search for new sources of cell component for combined transplants in chondroplasty Samara
B-64	Elena V. Chepeleva	Balashov VA, Dokuchaeva AA, Korobeynikov AA, Lependin SO, Pavlova SV, Slotvitsky MM, Strelnikov AG, Tselaya VA, <u>Chepeleva EV</u> , Sergeevichev DS. Investigation of polymeric nanofiber matrices populated by cardiac cell culture biocompatibility, in experiment on mini-pigs Novosibirsk
B-65	Valery V. Litvinov	<u>Litvinov VV</u> , Lemkina LM, Freund GG, Korobov VP, Kuznetsova VV. Morphological characteristics of regenerative processes in soft tissues around the teflon catheter fragment with antimicrobial peptide varnerin in mice Perm
B-66	Natalia G. Luzgina	<u>Luzgina NG</u> , Rusanov AL, Burunova VV, Nakhod KV, Kanashenko SL, Lisitsa AV. Experience in tissue-engineered constructs of human epidermis' application in the investigation of chemical products' safety Moscow
B-67	Alexandr S. Voitekhovich,	<u>Voitekhovich AS</u> , Vasina EV, Kostyunina VS, Severin IN, Petyovka NV. Erythroid differentiation of umbilical cord blood hematopoietic cells in terms of co-cultivation with endothelial cells of umbilical cord blood Minsk, Republic of Belarus
B-68	Svetlana O. Strokova	<u>Strokova SO</u> , Arutyunyan IV, Mullabaeva SM, Fatkhudinov TK. Cryopreservation of human umbilical cord tissue: development of safe and effective technique Moscow
B-69	Nina V. Kalmykova	<u>Kalmykova NV</u> , Demyanenko IA, Shishkina AV, Khats YS, Suslov AP. Suspension of a fibrous extracellular matrix: effectiveness study in a model of incisional skin wounds healing <i>in vivo</i> Moscow
B-70	Maria A. Figurkina	<u>Figurkina MA</u> , Mikhailova EV, Malekov DA, Sokolova MO, Alexandrov VN. Decellularized tracheal tissue for plastic surgery of its window defects Saint Petersburg
B-71	Ramazan Z. Nakohov	<u>Nakohov RZ</u> , Gubareva EA, Kuevda EV, Sotnichenko AS, Gumenyuk IS, Kade AK, Mogil'naya GM. Evaluation of pro-angiogenic properties of the tissue-engineered esophagus constructs in rat model Krasnodar
B-72	Elena E. Makashova	<u>Makashova EE</u> , Zubov PM, Zubova OL, Babijchuk LA. Role of glutathione in cryopreservation of nucleated human cord blood cells Kharkiv, Ukraine
B-73	Elina Chermnyh	<u>Chermnyh ES</u> , Kiseleva EV, Rogovaya OS, Vorotelyak EA. Tissue-engineered skin equivalent accelerates wound healing in full-thickness wound model in mice Moscow
B-74	Yekaterina Ya. Shevela	<u>Shevela Ye.Ya.</u> , Starostina N.M., Paltsev A.I., Shipunov M.V., Zheltova O.I., Meledina I.I., Khvan L.A., Leplina O.Yu., Ostanin A.A., Chernykh E.R., Kozlov V.A. Efficacy of cell therapy in liver cirrhosis Novosibirsk

B-75	Olesya O. Latyeva	<u>Latyeva OO</u> , Kiseleva EV, Vasetsky ES. Immortalized myoblasts are a tool for <i>in vitro</i> modeling and studying of mechanisms of facioscapulohumeral muscular dystrophy development Moscow
B-76	Yulia D. Molokotina	Beloglazova IB, <u>Molokotina YD</u> , Zubkova ES, Shevchenko EK, Boldyreva MA, Makarevich PI, Stafeyev YS, Parfenova EV. The choice of viral vector for retrieval of genetically-modified mesenchymal stromal cells of adipose tissue producing hepatocyte growth factor, for blood supply recovery and ischemic tissues' innervation stimulation Moscow
B-77	Anastasia Moisenovich	<u>Moisenovich AM</u> , Mashkov AE, Fedulov AV, Soldatenko AS, Agapov II, Kulikov AV, Arkhipova AY, Vasil'eva TV, Moisenovich MM. Scaffold, based on fibroin fibers, vitalized by allogeneic bone marrow cells, for the rat's jejunum defect restoration Moscow
B-78	Daria S. Kuznetsova	<u>Kuznetsova DS</u> , Prodanets NN, Timashev PS, Bagratashvili VN, Zagaynova EV. Bone tissue regeneration after tissue-engineered constructs with MSCs implantation. The role of allogeneic cells Nizhny Novgorod
B-79	Ina G. Panova	<u>Panova IG</u> , Nizyaeva NV, Ivanets TY, Bezzubenko YV, Sinitsyna VA, Poltavtseva RA, Tatikolov AS, Stroeva OG, Shchegolev AI, Sukhikh GT. Alpha-fetoprotein and its possible functions during prenatal development of the human eye Moscow
B-80	Ina G. Panova	<u>Panova IG</u> , Nizyaeva NV, Poltavtseva RA, Sinitsyna VA, Shchegolev AI, Sukhikh GT. TLR4 expression in human retina during prenatal development Moscow
B-81	Victoria B. Karpovich	<u>Karpovich VB</u> , Nashchekina YA, Nikonov PO, Yudintseva NM. Development of small diameter artificial vessel generation technique, on the basis of polymer scaffold and bone marrow stromal cells Saint Petersburg
B-82	Elena I. Kuks	<u>Kuks EI</u> , Shershakova NN, Makarova EA, Andreev SM, Khaitov MR. Studying the fullerenes' ability to stimulate the regeneration of cutaneous lesions Moscow
B-83	Maria Sokolova	<u>Sokolova MG</u> , Lopatina EV, Pennijajnen VA, Kipenko AV, Gavrichenko AV. Organ culture of a nervous tissue as a test system for neurodegenerative diseases pathogenesis exploration Saint Petersburg
B-84	Anastasia Kruchinina	<u>Kruchinina AD</u> , Venediktov AA. Extracellular collagen matrix as a material for regenerative medicine Penza
B-85	Irina I. Suvorova	Knyazeva AR, <u>Suvorova II</u> . Resveratrol enhances the pluripotency of mouse embryonic stem cells Saint Petersburg
B-86	Timur Kh. Tenchurin	<u>Tenchurin TH</u> , Shepelev AD, Mamagulashvili VG, Dyuzheva TG, Lundup AV, Krashennnikov ME, Klabukov ID, Gomsyak VI, Krashennnikov SV, Buzin AI, Chvalun SN. Tissue-engineered construction of the bile duct on the basis of biodegradable polymers: mechanical properties, <i>in vitro</i> degradation, functionalization with growth factors Moscow

B-87	Bauyrzhan A. Umbaev	<u>Umbaev BA</u> , Oljaev FS, Massoud A, Sadyrbekov DT, Shramko AY, Tsoy AK, Safarova YI, Omarova DA., Askarova SN. Investigation of wound healing properties of polymeric hydrogel wound dressing based on amniotic membrane and poloxamer 407 Astana, Kazakhstan
B-88	Lyudmila N. Dokukina	<u>Dokukina LN</u> , Prokhorova YN. Efficacy of autologous cells' transplantation, together with early necrectomy, in case of burns of II-III degree in children Nizhny Novgorod
B-89	Ksenia G. Kolobynina	<u>Kolobynina KG</u> , Solov'eva VV. Tescalcin as a potential agent for human mesenchymal stem cells differentiation Kazan
B-90	Ivan S. Gumenyuk	<u>Gumenyuk IS</u> , Sotnichenko AS, Gubareva EA, Kuevda EV, Gumenyuk SE, Nakokhov RZ. Automated morphometric analysis in assessing of tissue-engineered constructions' quality Krasnodar
B-91	Marcel R. Khaliullin	<u>Khaliullin MR</u> , Zhuravleva MN, Masgutov RF, Rizvanov AA, Deev RV. Genetic activation of bone-replacing materials potentiates bone regeneration <i>in vivo</i> Kazan
B-92	Alexandra N. Gornostaeva	<u>Gornostaeva AN</u> , Bobyleva PI, Andreeva ER, Buravkova LB. Influence of innate immunity cells on the functional state of MSCs Moscow
B-93	Vasily A. Mikhanov	<u>Mikhanov VA</u> , Polyakova VS. Structural and functional equivalents of neuroendocrine regulation of bone tissue regeneration Orenburg
B-94	Murat Yu. Shagidulin	<u>Shagidulin MY</u> , Onischenko NA, Mozheiko NP, Gonikova ZZ, Sevastyanov VI, Gauthier SV. Influence of liver bioengineered constructs' cellular composition on chronic liver failure correction and treatment Moscow
B-95	Rimma A. Poltavtseva	<u>Poltavtseva RA</u> , Vtorushina VV, Svirshevskaya EV, Romanov YA, Volgina NE, Lupatov AY, Krechetova LV. Cytokines' and chemokines' secretion profile of mesenchymal multipotent stromal cells isolated from different tissues Moscow
B-96	Olga V. Zhidkova	<u>Zhidkova OV</u> , Ezdakova MI. Endothelial cells as a migration activity activator for mesenchymal stromal cells Moscow
B-97	Larisa L. Alekseenko	<u>Alekseenko LL</u> , Vinogradov AE, Anatskaya OV, Shilina MA, Kornienko YS, Grinchuk TM, Nikolsky N. N. Human endometrium mesenchymal stem cells synchronized in phase G0/G1 of the cell cycle are less susceptible to sub-lethal heat exposure than proliferating cells Saint Petersburg
B-98	Vera A. Matveeva	<u>Matveeva VA</u> , Artem'eva LV, Matveev AL, Chicherina GS, Potapova OF, Majborodin IV, Efremov YA, Aleshina TE, Ovsyannikova TV, Morozov VV. Cultivated cells from the functional layer of endometrium derived from women with an established diagnosis of chronic endometritis Novosibirsk

B-99	Julia A. Nashchekina	<u>Nashchekina YA</u> , Udintseva NM, Nikonov PO, Aleksandrova SA, Smagina LV, Voronkina IV, Shevtsov MA, Blinova MI. Biomedical cell products based on biodegradable polymers and stromal cells for bone tissue reconstructive surgery Saint Petersburg
B-100	Kseniya I. Perepelina	<u>Perepelina KI</u> , Dmitrieva RI, Malashicheva AB. Interaction of Lamin A/S with Notch and Wnt signaling pathways during cell differentiation Saint Petersburg
B-101	Tatiana N. Isayeva	<u>Isayeva TN</u> , Smagin MA, Demura AY, Surovtseva MA, Kim II, Lykov AP, Poveshchenko OV, Nimaev VV. Results of trophic ulcers of variable origin and localization treatment with the use of autologous plasma enriched with platelet lysate Novosibirsk
B-102	Anastasia P. Poniatskaya	<u>Poniatskaya AP</u> , Mukhina IV, Mikhailov VI, Pozdeeva NA, Korotchenko SA, Batkov EN, Shipunov AA, Katmakov KI, Davydenko DV. Limbal epithelial stem cells graft on a bioresorbable vehicle Nizhny Novgorod
B-103	Darya D. Namestnikova	<u>Namestnikova DD</u> , Gubsky IL, Sukhinich KK, Melnikov PA, Gabashvili AN, Solov'eva AA, Gubsky LV, Yarygin KN. Mesenchymal stem cells in experimental ischemic stroke treatment: therapeutic effects, cell migration and complications after intra-arterial administration in rats Moscow
B-104	Elena A. Velikanova	<u>Velikanova EA</u> , Matveeva VG, Antonova LV, Sevostyanova VV, Mironov AV, Krivkina EO, Glushkova TV, Barbarash LS. Studying of peculiarities of <i>de novo</i> tissue formation on the basis of biodegradable small diameter vascular grafts of different polymer composition modified by RGD – peptides Kemerovo
B-106	Angelina A. Titova	<u>Titova A.A.</u> , Mavlikeev M.O., Martynova Ye.V., Shafigullina A.K., Garanina E.E., Chernova O.N., Pevnev G.O., Gumerova A.A., Rizvanov A.A., Kiyasov A.P. Evaluation of influence of genetically modified MMSC of regeneration of skeletal muscles in rat model of hind limb ischemia Kazan
B-107	Lyalya A. Musina	<u>Musina L.A.</u> , Shangina O.P., Muslimov S.A., Kornilayeva G.G., Solovieva E.P., Khasanov R.A. Modified allogeneic biomaterial – matrix for endothelial cell regeneration Ufa
B-108	Anastasiya I. Shpichka	<u>Shpichka A.I.</u> , Koroleva A.V., Dayvik A., Timashev P.S., Chichkov B.N. Design of a hydrogel-based microfluidic device for vessel-on-a-chip systems Moscow
B-109	Anton V. Mironov	<u>Mironov A.V.</u> , Bozo I.Ya., Deev R.V., Komlev V.S., Mironova O.A., Popov V.K., Smornov I.V., Fedotov A.Yu. Additive manufacture of matrices for tissue engineering Moscow
B-110	Savely A. Shitikov	<u>Shitikov S.A.</u> , Bykova N.A., Kumchiy A.A., Efimov G.A. Frequency analysis of naive CD8+ T-lymphocytes specific for minor histocompatibility antigens ACC-1Y and HA-2 in healthy donors' blood Moscow

B-111	Alexandra V. Panova	Panova A.V. Epigenetic reprogramming of human stem cells to “naïve” state Moscow
B-112	Maria S. Kotlyarova	<u>Kotlyarova M.s.</u> , Arkhipova A.Yu., Moysenovatch A.M., Kulikov D.A., Molochkov A.V., Moysenovich M.M. Silk fibroin-based 3D porous scaffolds for bone regeneration Moscow
B-113	Kristina A. Yurova	Litvinova L.S., Shupletsova V.V., Yurova K.A., Khaziakhmatova O.G., Melashenko E.S., Khlusova M.Yu., Sharkeev Yu.P., Komarova Ye.G., Sedelnikova M.B., Khlusov I.A. Evaluation of secretory response of MSC in 2D and 3D cultures Kaliningrad
B-114	Mikhail S. Bozhokin	<u>Bozhokin M.S.</u> , Bozhkova S.A., Netalyko G.I., Nashekina Yu.A., Nakonechny D.G. Influence of TGF-β-3 on chondrogenic differentiation of MMSC in vitro and recovery of a superficial cartilage defect within a tissue construct in vivo Saint Petersburg
B-115	Marina A. Vodyakova	<u>Vodyakova M.A.</u> , Drozdova M.G., Maslova M.V., Kasatkina M.A., Demina T.S., Uspensky S.A., Kil'deeva N.R., Markvicheva E.A. Composite covalent-bound hydrogels from chitosan and hyaluronic acid for tissue engineering Moscow
B-116	Elena S. Golovneva	<u>Golovneva Ye.S.</u> , Revel-Muroz Zh.A., Onishenko N.A. Influence on bone marrow laser irradiation on healing of hepatic surgical wound Chelyabinsk
B-117	Ivan D. Guryanov	<u>Guryanov ID</u> , Naumenko EA, Lvov YuM, Fakhrullin RF. Nanomodified biopolymer matrices for tissue engineering Kazan
B-118	Andreia Cucuruz	Cucuruz A., Busuioc C., Voicu G. Vitroceramic thin film coatings deposited on metallic substrates based on Ti by laser ablation Romania
B-119	Pavel V. Kopelev	<u>Kopelev PV</u> , Alexandrova SA, Nashekina YuA, Blinova MI. Development of a biomedical cell product from bone marrow MSC and polylactide to replace damaged cartilage Saint Petersburg
B-120	Vladimir A. Mit'kevich	Burnysheva KM, Abramov AA, Kechko OI, Poluektov YuM, Petrushanko IYu, Mit'kevich VA, Lakomkin VL, Makarov A.A. Normalisation of blood RNA levels by binase ribonuclease in animals with myocardium damage Moscow

CONTENTS

GREETINGS	3
ORGANISERS	8
GENERAL INFORMATION	10
VENUE PLAN	12
TIMETABLE	13
PARALLEL SYMPOSIA	19
POSTER SESSION	30

GENERAL PARTNER



GENERAL SPONSOR



PLATINUM SPONSOR



GOLD SPONSOR



SILVER SPONSOR



BRONZE SPONSORS



EXHIBITORS



KEY MEDIA PARTNER



INFORMATION PARTNERS



TECHNICAL SUPPORT

web: www.congress.regenerative-med.ru

e-mail: congress@regenerative-med.ru

tel.: +7 (499) 390-34-38

mob.: +7 964 796-55-74