

Organisers



LOMONOSOV MOSCOW  
STATE UNIVERSITY



SOCIETY  
FOR REGENERATIVE  
MEDICINE

Endorsement



# PROGRAMME

4<sup>th</sup> NATIONAL CONGRESS ON  
**REGENERATIVE MEDICINE**  
20–23 NOVEMBER 2019







Dear colleagues!

On behalf of the Russian Ministry of Health and on my own behalf, I cordially greet the participants and guests of the IV National Congress on Regenerative Medicine. In the public health in Russia great attention is paid to the development of new trends in medicine, using 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 of regenerative medicine, which allows achieving fundamentally new therapeutic results, specifically the complete restoration of the structure and function of tissues and organs after damage and even the recreation of lost organs or tissues using tissue engineering approaches.

The Congress is held within the verge of Lomonosov Moscow State University, whose scholarly traditions formed a reliable foundation for leadership in the field of regenerative medicine. Fundamental and interdisciplinary research by MSU scientists become a basis for many solutions in the field of regenerative medicine, and the educational traditions of the classical university provide this area with high-level specialists.

Prominent Russian and foreign scientists and physicians are traditionally taking part in the Congress, and an extensive scientific program will allow them to discuss the most challenging issues of regenerative medicine. The participants of the Congress are faced with a number of critical tasks relating to current achievements, unsolved problems and perspectives for the development of regenerative medicine. Holding a scientific event of such a level opens up new opportunities for the interaction of specialists in the field of regenerative medicine, will facilitate the establishment and maintenance of valuable scientific network and stimulate the implementation of the achievements of this new field of medicine into 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!

We are pleased to welcome all participants and guests of the IV National Congress on Regenerative Medicine within the verge of Lomonosov Moscow State University! To my opinion the organization of this scientific event, which is essential for the development of medical science in our country, in Lomonosov MSU is absolutely reasonable. The distinguished status of the MSU allows and simultaneously obliges us to act as a consolidating center, creating conditions for the unification and interaction of centers of competence in the most advanced fields of science. Regenerative medicine is referred without doubt to such areas and often called the «medicine of the future».

Since the emergence of university education, the medical faculty has always been one of the backbone faculties of the university, because medicine traditionally uses the discoveries and achievements of all existing sciences. 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 past years, Moscow State University, also in the conjunction with other leading research institutions, has carried out a number of fundamental and applied research and development in the field of regenerative medicine, which contributed to the establishment and development of this direction in Russia and helped to accelerate the implementation of the achievements of regenerative medicine into the practice. The first Institute for Regenerative Medicine in Russia was created in 2016 at the Medical Scientific and Educational Center of Moscow State University. We use all our experience, the knowledge of our scientists, teachers, physicians and the resources of Moscow University to develop this priority area for the interests of our country, which has completely unique capabilities and prospects for reaching a fundamentally new level by the national medicine. Recently in the framework of postgraduate education, the training of specialists in regenerative medicine has started in Moscow State University.

This year the National Congress on Regenerative Medicine again gathered an unprecedented number of participants from many regions of Russia and foreign countries. The scientific program of the Congress covers the majority of areas and topics relevant to regenerative medicine. 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 IV 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, dear friends!

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.

New knowledge about the molecular and cellular mechanisms that underlie the regenerative processes open up the possibility of managing our own regenerative resources by influencing the processes of renewing the cellular composition of organs and tissues and controlling the processes of differentiation of stem cells quiescent in niches, transdifferentiation of somatic cells, migration and proliferation. The proven effective approach for this is to use stem cell secretome. The repertoire of regenerative medicine methods also includes gene therapy, both substitutional and genome editing. For cases of severe tissue defects or even organ loss regenerative medicine could offer methods and approaches for tissue engineering and technologies for creating artificial but living tissue structures and organs.

Federal Law No. 180-Φ3 “On Biomedical Cellular Products”, which entered into force in 2017, is currently provided with the regulatory framework necessary for practical application. The professional network of researchers and developers has a scientific and technical foundation in the field of creating products for regenerative medicine, so the introduction of regenerative medicine methods into practice is now a matter of time and dialogue between all interested parties – scientists, healthcare and production organizers, industry and professional medical associations.

The Congress is not only a scientific forum where leading scientists will be able to share their results, but also an important event forming a new professional community, which is now united under the auspices of the “Society of Regenerative Medicine”. We must not forget about the educational mission of the Congress, which will be held within the verge of the first University of the country – MSU. Traditionally, students, graduate students, residents and young specialists, whose scientific and professional level and professional future depend on knowledge in the field of fundamental principles of regenerative medicine and practical experience that is constantly accumulating in our country and in the world, traditionally take part in this scientific event.

I am pleased to welcome you at the IV National Congress on Regenerative Medicine, which takes place in Russia every two years and for the second time will be held at the Lomonosov Moscow State University.

We hope that the Congress will reach a new level in 2019, and along with it important steps will be taken by a young, but very high-tech and promising field – regenerative medicine! I wish good luck to all participants in the Congress!



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

## ORGANISERS

Lomonosov Moscow State University  
Russian Academy of Sciences  
Russian Foundation for Basic Research  
Society of Regenerative Medicine

## CONGRESS LEADERS

**Victor Sadovnichy**

Organising Committee Chair – Rector, Lomonosov Moscow State University

**Vsevolod Tkachuk**

Programme Committee Chair – Dean, Faculty of Medicine, Lomonosov Moscow State University  
Director, Institute of Regenerative Medicine, Medical Research and Educational Centre,  
Lomonosov Moscow State University  
President, Society of Regenerative Medicine  
Academic-Secretary, Physiological Sciences Department, Russian Academy of Sciences

**Gennady Sykhikh**

Congress Vice-President – Director Kulakov National Research Centre of Obstetrics, Gynecology,  
and Perinatology

## PROGRAMME COMMITTEE

<b>Lyudmila Buravkova</b>	Institute of Biomedical Problems, Russian Academy of Sciences
<b>Ekaterina Vorotelyak</b>	Koltzov Institute of Developmental Biology, Russian Academy of Sciences
<b>Elena Gubareva</b>	Research Institute of Medical Primatology
<b>Roman Deev</b>	North-Western State Medical University named after I.I. Mechnikov
<b>Nina Drize</b>	National Research Centre of Hematology
<b>Boris Zhivotovsky</b>	Faculty of Medicine, Lomonosov Moscow State University, Karolinska Institutet
<b>Suren Zakian</b>	Institute of Cytology and Genetics, Siberian department of the Russian Academy of Sciences
<b>Andrey Zaritsky</b>	Almazov National Research Centre
<b>Sergey Kiselev</b>	Vavilov Institute of General Genetics, Russian Academy of Sciences
<b>Maria Lagar'kova</b>	Federal Research Clinical Centre of Physical and Chemical Medicine, FMBA
<b>Galina Pavlova</b>	Institute of Gene Biology, Russian Academy of Sciences
<b>Yelena Parfyonova</b>	National Research Centre of Cardiology
<b>Albert Rizvanov</b>	Kazan Federal University
<b>Viktor Sevastianov</b>	Shumakov National Research Centre of Transplantology and Artificial Organs
<b>Natalya Sergeeva</b>	Hertsen Moscow Oncology Research Institute
<b>Oleg Serov</b>	Institute of Cytology and Genetics, Siberian department of the Russian Academy of Sciences
<b>Alexey Tomilin</b>	Institute of Cytology, Russian Academy of Sciences
<b>Konstantin Yarygin</b>	Orekhovich Institute of Biomedical Chemistry

PRESIDIUM	
<b>Sergey Boytsov</b>	National Research Centre of Cardiology
<b>Andrey Vasiliev</b>	Koltzov Institute of Developmental Biology, Russian Academy of Sciences
<b>Sergey Gaultier</b>	Shumakov National Research Centre of Transplantology and Artificial Organs
<b>Ivan Dedov</b>	National Research Centre of Endocrinology
<b>Andrey Lisitsa</b>	Orekhovich Institute of Biomedical Chemistry
<b>Nikolay Nikolsky</b>	Institute of Cytology, Russian Academy of Sciences
<b>Sergey Popov</b>	Scientific Research Institute of Cardiology Tomsk National Research Medical Centre of the Russian Academy of Sciences
<b>Alexander Rumyantsev</b>	Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology and Immunology
<b>Valery Savchenko</b>	National Research Centre of Hematology
<b>Vladimir Smirnov</b>	National Research Centre of Cardiology
<b>Konstantin Skryabin</b>	Federal Research Center “Fundamentals of Biotechnology”, Russian Academy of Sciences
<b>Vladimir Chekhonin</b>	Russian National Pirogov Research Medical University
<b>Evgeny Shlyakhto</b>	Almazov National Research Centre

ORGANISING COMMITTEE	
<b>Zhanna Akopyan</b>	Medical Research and Educational Centre, Lomonosov Moscow State University
<b>Maria Alexandrova</b>	Koltzov Institute of Developmental Biology, Russian Academy of Sciences
<b>Denis Butnaru</b>	Institute of Regenerative Medicine, Sechenov University
<b>Vadim Govorun</b>	Federal Research Clinical Centre of Physical and Chemical Medicine, FMBA
<b>Igor Grivennikov</b>	Institute of Molecular Genetics, Russian Academy of Sciences
<b>Olga Grigorieva</b>	Generium
<b>Anastasia Efimenko</b>	Institute for Regenerative Medicine, Medical Research and Educational Centre, Lomonosov Moscow State University
<b>Vadim Zhdanov</b>	Goldberg Institute of Pharmacology and Regenerative Medicine
<b>Kirill Kaem</b>	Skolkovo
<b>Armais Kamalov</b>	Medical Research and Educational Centre, Lomonosov Moscow State University
<b>Andrey Kiyasov</b>	Kazan Federal University
<b>Sergey Lukianov</b>	Russian National Pirogov Research Medical University
<b>Pavel Makarevich</b>	Institute for Regenerative Medicine, Medical Research and Educational Centre, Lomonosov Moscow State University
<b>Mikhail Piradov</b>	Neurology Research Centre
<b>Elena Tarasova</b>	Secretary of Organising Committee Society of Regenerative Medicine

## GENERAL INFORMATION

### Venue

### 4<sup>th</sup> National Congress on Regenerative Medicine

*Faculty of Medicine, Lomonosov Moscow State University*

Lomonosovsky prospect 27-1, Moscow, Russia, 119991



## HALLS

### FACULTY OF MEDICINE, LOMONOSOV MOSCOW STATE UNIVERSITY

Assembly Hall “Lomonosovskiy”(2<sup>nd</sup> floor)

V-1 (1st and 2nd floor, sector V)

V-2 (1st floor, sector V)

V-3 (1st floor, sector V)

V-4 (2nd floor, sector V)

V-5 (2nd floor, sector V)



## REGISTRATION

Registration of the Congress participants will be held on November 20–23, 2019 in the lobby of the 1st floor of the Lomonosov building, Lomonosov Moscow State University.

Opening hours of the Registration desk:

20 November 2019: 12p.m. – 7 p.m.

21 November 2019: 8 a.m. – 6 p.m.

22 November 2019: 8 a.m. – 6 p.m.

23 November 2019: 8 a.m. – 4 p.m.

## CONGRESS OPENING CEREMONY

The opening ceremony of the Congress will take place on November 20, 2019 at 4:30p.m. in the Assembly Hall “Lomonosovskiy”.

## TIME LIMITS


Plenary lecture – 40 minutes. Presentations made at the scientific symposia are held in accordance with the time limits specified in the Congress Program.

Speakers should submit their presentations to the representative of the Congress Organizing Committee at the presentation desk (lobby of the 1st floor) upon registration or no later than 30 minutes before the presentation starts.

## POSTER SESSION

The poster session will be held in the lobby of the 2<sup>nd</sup> floor of the Lomonosov building, Lomonosov Moscow State University. All poster presentations should be placed according to the Congress Program during the indicated hours and days. We kindly ask you to place a poster before the poster session and pick it up when the session ends: the organizers cannot guarantee the safety of the posters left after the session. At least one of the authors should be present during the poster presentation in order to discuss the material. Fixing material for posters will be available at the registration desk during the Congress.

## TRANSLATION DURING THE CONGRESS

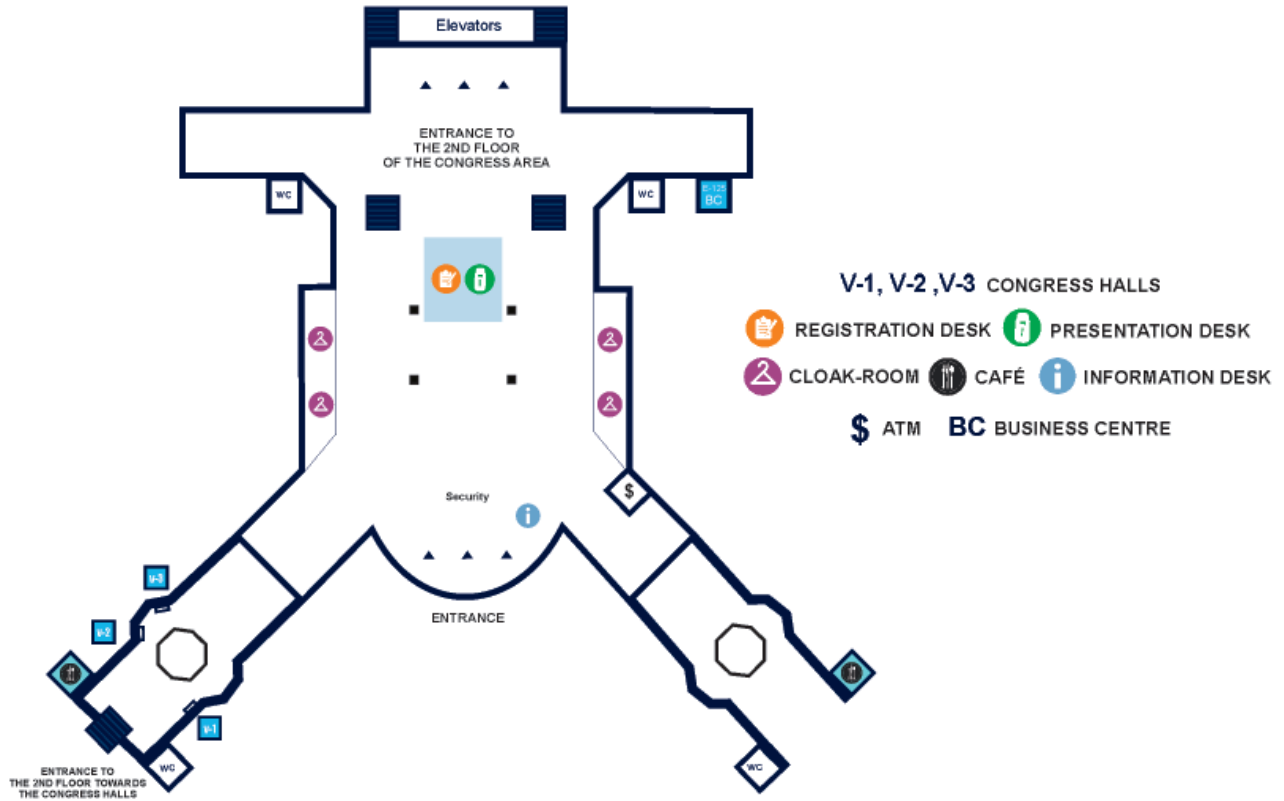
All sessions in the Assembly Hall “Lomonosovskiy” are held with simultaneous translation. Parallel symposia with simultaneous translation are marked in the Program – . Other sessions are not provided with simultaneous translation.

## CERTIFICATES OF PARTICIPATION

Certificates in electronic format will be sent to participants after the Congress.

## VENUE PLAN

### 1<sup>ST</sup> FLOOR





### 2<sup>ST</sup> FLOOR





## CONGRESS PROGRAM



<b>November 20, Wednesday (RU/EN) </b> <b>Lomonosov building of Moscow State University</b> <b>Lomonosovskiy Assembly Hall</b>	
<b>16:30-17:30</b>	<b>Congress Opening Ceremony</b> <b>Greetings to Congress participants</b> Viktor Sadovnichiy, Rector of Lomonosov Moscow State University Veronika Skvortsova, Minister of Health of the Russian Federation Vsevolod Tkachuk, Congress President, Lomonosov Moscow State University Welcome note from the Russian Academy of Science Welcome note from the Russian Science Foundation Welcome note from the Russian Foundation for Basic Research
<b>17:30-19:00</b>	<b><u>Plenary Session 1</u></b> <b>Chairs: Vladimir Chekhonin, Gennadiy Sukhikh, Ivan Dedov</b>
<b>17:30-18:10</b>	<b>The role of blood vessels in regenerative medicine</b> Napoleone Ferrara, University of California San Diego, USA
<b>18:10-18:50</b>	<b>Transplantation of immune and hematopoietic stem cells as a basis of regenerative medicine</b> Alexander Rumyantsev, Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology and Immunology
<b>19:00-21:00</b>	<b>Welcome reception</b>



**November 21, Thursday**  
**Lomonosov building of Moscow State University**


<b>08:00-09:00</b>	<b>Registration</b>				
<b>09:00-11:00</b>	<b>Plenary Session 2 (RU/EN)</b>  <i>Assembly Hall "Lomonosovskiy"</i> <b>Chairs: Vsevolod Tkachuk, Gennadiy Sukhikh, James J. Yoo</b>				
<b>09:00-09:40</b>	<b>Current Developments and Future Perspectives of Regenerative Medicine</b> James J. Yoo, Wake Forest Institute for Regenerative Medicine, USA				
<b>09:40-10:20</b>	<b>Regeneration, cell death and cancer</b> Boris Zhivotovsky, Lomonosov Moscow State University; Karolinska Institutet, Sweden				
<b>10:20-11:00</b>	<b>A new stem cell niche in the bone</b> Andrei Chagin, Karolinska Institutet, Sweden, Institute of regenerative medicine, Sechenov University				
<b>11:00-11:30</b>	<b>Coffee break, exhibition, poster session I</b>				
<b>11:30-13:00</b>		<b>Parallel symposia (PS)</b>			
	<b>PS1</b> <i>Assembly Hall "Lomonosovskiy"</i> <i>Symposium dedicated to the memory of V.S. Repin</i> <b>RU/EN+</b> 	<b>PS2</b> <i>Auditorium V-1</i>	<b>PS3</b> <i>Auditorium V-2</i> <i>School of young scientists of the Russian Science Foundation</i>	<b>PS4</b> <i>Auditorium V-3</i>	<b>PS5</b> <i>Auditorium V-4</i>
	<b>Cellular technologies for the control of reparative morphogenesis</b> (Gennadiy Sukhikh, Irina Saburina)	<b>Stimulation of regeneration – current approaches and research methods</b> (Maria Alexandrova, Ekaterina Vorotelyak, Elena Zagainova)	<b>The role of stromal cells in tissue regeneration</b> (Pavel Makarevich, Natalia Kalinina)	<b>Cell-engineering constructions: from stimulation of reconstructive processes to the development of tissue structures</b> (Konstantin Yarygin, Viktor Sevastyanov)	<b>Progenitor cells and microenvironment factors</b> (Ludmila Buravkova, Irina Shipunova)
					<b>Imaging flow cytometry for regenerative medicine: new opportunities</b> (with the support of <i>Luminex Corporation</i> )
<b>13:00-14:00</b>	<b>Lunch, exhibition, poster session I</b>				

14:00-15:30	<b>PS6</b> Assembly Hall “Lomonosovskiy” RU/EN+ 	<b>PS7</b> Auditorium V-1 Symposium dedicated to the memory of L.I. Korochkin	<b>PS8</b> Auditorium V-2 School of young scientists of the Russian Science Foundation	<b>PS9</b> Auditorium V-3	<b>RT1</b> Auditorium V-4	<b>IS2</b> Auditorium V-5
	<b>Programmed cell death and new cell generation</b> (Boris Zhivotovsky, Kseniya Rubina)	<b>Neurogenesis and regenerative medicine in neurology</b> (Galina Pavlova, Oleg Serov)	<b>Gene editing in regenerative medicine</b> (Zakiyan Suren, Yelena Parfyonova, Maria Vorontsova)	<b>Matrix-based tissue engineering structures for regenerative medicine</b> (Sergey Chvalun, Elena Gubareva)	<b>Legal Regulation of regenerative medicine in the Russian Federation</b> (Moderators: Igor Korobko, Andrey Vasiliev, Dmitry Kudlay, Antonina Chuprova)	<b>Three-dimensional cell models: obtaining and processing images of matrices and spheroids</b> (with the support of Bioline LLC)
15:30-16:00	<b>Coffee-break, exhibition, poster session 1</b>					
16:00-8:40	<b>Plenary Session 3 RU/EN</b>  Assembly Hall “Lomonosovskiy” Chairs: <b>Ludmila Buravkova, Maria Alexandrova</b>					
16:00-16:40	<b>Molecular functional profile and therapeutic potential of endometrial mesenchymal stem cells cultured in spheroids</b> Nikolay Nikolsky, Lyublinskaya Olga, Institute of Cytology RAS					
16:40-17:20	<b>Intravital confocal microscopy in the study of tumors</b> Vladimir Chekhonin, Viktor Naumenko, Pirogov Medical University					
17:20-18:00	<b>Guidance receptors in the processes of vascular and nerve growth and tumor progression</b> Ksenia Rubina, Ekaterina Semina, Vsevolod Tkachuk, Faculty of Medicine, Lomonosov Moscow State University					
18:00-18:40	<b>Neural stem cells, human-specific genes, and neocortex expansion in development and human evolution</b> Nereo Kalebic, Max Planck Institute of Molecular Cell Biology and Genetics, Germany					

November 22, Friday  
Lomonosov building of Moscow State University

08:00-09:00	Registration					
09:00-11:00	<b>Plenary Session 4 RU/EN</b>  <i>Assembly Hall “Lomonosovskiy”</i> <b>Chairs: Natalia Sergeeva, Mikhail Galagudza</b>					
09:00-09:40	<b>Cell therapy in cardiology: problems and prospects</b> Yelena Parfyonova, National Cardiology Research Center Ministry of Health of the Russian Federation					
09:40-10:20	<b>Reconstructing Neuro – Vascular Niche</b> Tatiana Byzova, Lerner Centre (Cleveland Clinic), USA					
10:20-11:00	<b>The structure of cell fate decisions revealed by a power of single cell transcriptomics</b> Igor Adameyko, Karolinska Institutet, Sweden; Medical University of Vienna, Austria					
11:00-11:30	<i>Coffee-break, exhibition, poster session 2</i>					
11:30-13:00	<b>Parallel symposia (PS)</b>					
	<b>PS10 RU/EN+</b> <i>Assembly Hall “Lomonosovskiy”</i> 	<b>PS11</b> <i>Auditorium V-1</i>	<b>PS12</b> <i>Auditorium V-4</i>	<b>PS13</b> <i>Auditorium V-3</i> <i>Symposium dedicated to the memory of N.P. Omelyanenko</i>	<b>PS14</b> <i>Auditorium V-2</i>	<b>IS3</b> <i>Auditorium V-5</i>
	<b>Mechanisms of cell-cell communication in tissue repair and regeneration</b> (Anastasia Efimenko, Larisa Litvinova)	<b>Regenerative technologies in cardiology</b> (Yelena Parfyonova, Mikhail Galagudza, Suren Zakiyan)	<b>Gene therapy and genetic modification of cells</b> (Andrey Kiyasov, Albert Rizvanov, Ekaterina Semina)	<b>New approaches, materials and constructs for bone tissue regeneration</b> (Natalia Sergeeva, Sergey Barinov)	<b>Induced Pluripotent Cells</b> (Aleksey Tomilin, Maria Lagarkova)	<b>Evaluation of the practical prospects of developments in the Regenerative Medicine</b> (Presentation of projects to experts of the Faculty of Medicine of Lomonosov Moscow State University, Society of Regenerative Medicine and Bayer)
13:00-14:00	<i>Lunch, exhibition, poster session 2</i>					

14:00-15:30	<p><b>PS15 RU/EN+</b> Assembly Hall “Lomonosovskiy”</p> 	<p><b>PS16</b> Auditorium V-1</p>	<p><b>PS17</b> Auditorium V-4</p>	<p><b>PS18</b> Auditorium V-3</p>	<p><b>RT2</b> Auditorium V-2</p>	<p><b>IS4</b> Auditorium V-5</p>
	<p>From basic research to clinical applications: Transplantation of Neural Crest-Derived Stem Cells as a Novel Approach to Stimulate Alveolar Bone Regeneration through Regulation of Osteogenesis and Angiogenesis (Wolf Grimm, Widera Darius). <u>RU/EN</u></p>	<p>Gene and cell therapy in the treatment of malignant tumors (Nina Drize, Mikhail Maschan, Sergey Larin)</p>	<p>Stem Cell Niches (Andrei Chagin, Igor Adameyko)</p>	<p>Biomaterials for regenerative medicine (Mikhail Shtilman, Elena Markvicheva)</p>	<p>Bioethical issues of regenerative medicine (Moderators: Vsevolod Tkachuk, Elena Bryzgalina, Lialia Gabbasova)</p>	<p>Multi-Mix Analysis in Science and Medicine: Merck xMAP Technology (with the support of the Merck LLC)</p>
15:30-16:00	<p><i>Coffee-break, exhibition, poster session 2</i></p>					
16:00-18:40	<p><b>Plenary Session 5 RU/EN</b>  Assembly Hall “Lomonosovskiy” Chairs: Aleksey Tomilin, Sergey Kiselev</p>					
16:00-16:40	<p><i>Memorial lecture of I.L. Chertkov</i> <b>The principle of polyclonality in hematopoiesis</b> Nina Drize, National Medical Research Center for Hematology, Ministry of Health of Russia</p>					
16:40-17:20	<p><b>Prevention and treatment of graft versus host reaction by cell therapy</b> Valeriy Savchenko, National Medical Research Center for Hematology, Ministry of Health of Russia</p>					
17:20-18:00	<p><b>Fundamental and applied issues of cell pluripotency</b> Aleksey Tomilin, Institute of Cytology RAS</p>					
18:00-18:40	<p><b>Direct differentiation as an approach to obtain specialized cells</b> Andrey Vasiliev, Koltzov Institute of Developmental Biology of Russian Academy of Sciences</p>					

November 23, Saturday Lomonosov building of Moscow State University				
09:00-10:00	<b>Registration</b>			
10:00-10:40	<b>Plenary session RU/EN±</b>  <i>Assembly Hall "Lomonosovskiy"</i> <b>Chairs: Mikhail Paltcev, Tatiana Byzova, Sergey Gauthier</b> <b>The shift of dogmas in regenerative biology and medicine</b> Vsevolod Tkachuk, Lomonosov Moscow State University			
10:40-11:30	<b>Coffee-break, exhibition</b>			
11:30-13:00	<b>Parallel symposia (PS)</b>			
	PS19 <i>Auditorium V-1</i>	PS20 <i>Auditorium V-4</i>	PS21 <i>Auditorium V-2</i>	PS22 <i>Auditorium V-3</i>
	<b>Translational research in regenerative medicine</b> (Roman Vasiliev, Ilya Eremin, Mikhail Potapnev)	<b>Regenerative medicine technologies for muscle tissue repair</b> (Irina Odintsova, Roman Deev, Andrey Pulin)	<b>Biobanking for regenerative medicine</b> <i>In common with NASBio</i> (Veronika Sysoeva, Mikhail Khotin)	<b>Biofabrication and additive technologies in regenerative medicine</b> (Vladimir Komlev, Natalya Sergeeva, Pyotr Timashev)
13.00-13.30	<b>Exhibition</b>			
13.30-14.00	Presentation of medals for outstanding contribution to the development of cell biology and therapy in Russia			
14.00-15.30	Presentations by Young Scientists Award and Poster Award winners			
15.30-16.00	<b>Congress Closing Ceremony</b>			
				<b>RT3</b> <i>Auditorium V-5</i> <b>Training of specialists in regenerative medicine</b> (Moderated by Zhanna Akopyan, Denis Butnaru, Andrey Kiyasov, Irina Lyadova)




**PARALLEL SYMPOSIA  
NOVEMBER 21, 2019, THURSDAY**

<p><b>Parallel Symposium 1</b>  <b>RU/EN+ </b>  <b>Cellular technologies for the control of reparative morphogenesis</b>  <i>Symposium dedicated to the memory of V.S. Repin</i>  <i>Chairs – Gennady Sukhikh, Irina Saburina</i></p>	
11:30-11:50	<p><b>New cellular technologies for the management of reparative morphogenesis</b>                      Irina Saburina, Research Institute of General Pathology and Pathophysiology</p>
11:50-12:05	<p><b>Role of macrophages in the regulation of cell homeostasis</b>                      Timur Fathudinov, National Medical Research Center for Obstetrics, Gynecology and Perinatology Named after Academician V.I. Kulakov of Ministry of Healthcare of Russian Federation</p>
12:05-12:20	<p><b>Induction of reparative morphogenesis and adaptive reserves in an ischemic myocardium using multipotent bone marrow mesenchymal stem cells of various phenotypes in the experiment</b>                      Viacheslav Mikhaylichenko, Medical Academy named after S.I. Georgievsky of Vernadsky CFU</p>
12:20-12:30	<p><b>Skin Organoids As a Novel Tool for Analysis of the Skin Microenvironment In Vitro</b>                      Anastasia Gorkun, Research Institute of General Pathology and Pathophysiology</p>
12:30-12:40	<p><b>Laser microsurgery of cell spheroids for regenerative medicine</b>                      Nastasia Kosheleva, Research Institute of General Pathology and Pathophysiology</p>
12:40-12:50	<p><b>Construction of 3D cell spheroids from human corneal epithelial cell culture</b>                      Dmitry Ostrovsky, S.N. Fedorov NMRC «MNTK «Eye Microsurgery»</p>
12.50-13.00	<p><b>The effect of MSCs and extracellular vesicles derived from MSCs on coagulation hemostasis</b>                      Denis Silachev, V.I. Kulakov Scientific Research Center for Obstetrics, Gynecology and Perinatology</p>
13.00-13.20	<p><b>Suspension adaptation and process development of Multipotent Mesenchymal Stem Cells for cell therapy applications</b>                      Vicard Quentin, Sartorius Stedim France</p>
<p><b>Parallel Symposium 2</b>  <b>Stimulation of regeneration stimulation – current approaches and research methods</b>  <i>Chairs – Maria Alexandrova, Ekaterina Vorotelyak, Elena Zagainova</i></p>	
11:30-11:50	<p><b>Features of the structural organization and specificity of expression of homeobox-containing genes and their isoforms as the basis for differences in regenerative responses</b>                      Julia Markitantova, Koltzov Institute of Developmental Biology of Russian Academy of Sciences</p>
11:50-12:10	<p><b>Development of a new method based on multiparameter imaging for intraoperative evaluation of the liver regenerative potential</b>                      Elena Zagainova, Privolzhskiy Medical Research University of the Ministry of Health of Russia</p>
12:10-12:25	<p><b>Dedifferentiation and reprogramming of non-neuronal cells – a trigger for mammalian nervous tissue regeneration</b>                      Maria Alexandrova, Koltzov Institute of Developmental Biology of Russian Academy of Sciences</p>
12:25-12:40	<p><b>Homeobox-containing proteins Prep and Meis in the processes of cell differentiation and regeneration</b>                      Dmitry Penkov, National Cardiology Research Center Ministry of Health of the Russian Federation</p>
12:40-12:50	<p><b>The effect of cryo-preservation on the adhesion and differentiation of keratinocytes in the epidermal equivalent of the skin</b>                      Anna Popova, Pirogov Medical University</p>
12:50-13:00	<p><b>Changes in the cytokine profile of blood serum of rats with various degrees of spinal cord injury</b>                      Aleksander Kostennikov, Kazan Federal University</p>
13:00-13:10	<p><b>New structural and functional markers in evaluating the effectiveness of various stem cell differentiations</b>                      Aleksandra Meleshina, Nizhny Novgorod State Medical Academy of the Ministry of Health of Russia</p>

<b>Parallel Symposium 3</b> <b>School of Young Scientists of the Russian Science Foundation</b> <b>The role of stromal cells in tissue regeneration</b> <i>Chairs – Pavel Makarevich, Natalia Kalinina</i>	
11:30-11:45	<b>Keynote speech by the project leader</b> Vsevolod Tkachuk, Lomonosov Moscow State University
11:45-11:55	<b>Address from the RSF</b>
11:55-12:05	<b>Address from an industrial partner</b> Mikhail Samsonov, Director of the Medical Department, R-Pharm
12:05-12:20	<b>Mechanisms of participation of multipotent stromal cells in the regulation of tissue renewal and regeneration</b> Natalia Kalinina, Faculty of Medicine, Lomonosov Moscow State University
12:20-12:30	<b>Heterologic sensitization of alpha-1A-adrenergic receptors as a mechanism for choosing the differentiating fate of mesenchymal stromal cells</b> Pyotr Tyurin-Kuzmin, Faculty of Medicine, Lomonosov Moscow State University
12:35-12:50	<b>Notch-dependent mechanisms of osteogenic cell differentiation</b> Anna Malashicheva, Almazov National Medical Research Center Ministry of Health of Russia
12:50-13:05	<b>Extracellular matrix of multipotent mesenchymal stromal cells: features of production and regulation in physiological hypoxia</b> Elena Andreeva, Institute of Biomedical Problems of the Russian Academy of Sciences
13:05-13:20	<b>Therapeutic efficacy and biodistribution of mesenchymal stromal cells and neural progenitor cells obtained from various sources after intraarterial transplantation in rats with a model of experimental cerebral infarction</b> Daria Namestnikova, Pirogov Medical University

<b>Parallel Symposium 4</b> <b>Cell-engineering constructions: from stimulation of reconstructive processes to the development of tissue structures</b> <i>Chairs – Konstantin Yarygin, Viktor Sevastyanov</i>	
11:30-11:50	<b>The possibilities of cryogenic structuring of biopolymers for development macroporous matrices for tissue engineering and regenerative medicine</b> Vladimir Lozinsky, A.N. Nesmeyanov Institute of Organoelement compounds Russian Academy of Sciences
11:50-12:10	<b>Total RNA of bone marrow cells, as an adaptive system for the regulation of restoration processes in damaged organs</b> Nina Onishchenko, V.I. Shumakov NMRC of Transplantology and Artificial Organs of the Ministry of Healthcare of the Russian Federation
12:10-12:25	<b>Development of technology for the formation of human thyroid constructs</b> Natalia Sergeeva, Herzen – branch of the Federal State Budgetary Institution Scientific Research Center for Radiology of the Ministry of Health of Russia
12:25-12:40	<b>New approaches to bioprinting of human tissues using mesenchymal stromal cells of various origins</b> Igor Vakhrushev, Institute of Biomedical Chemistry
12:40-12:50	<b>Stromal cells are capable of self-organization in vitro with the formation of distinct local microenvironments</b> Pyotr Nimiritsky, Institute for Regenerative Medicine, Medical Research and Education Center, Lomonosov Moscow State University
12:50-13:00	<b>Production technology and morphofunctional analysis of tissue-specific matrix from a fragment of a donor pancreas</b> Anna Ponomareva, Shumakov NMRC of Transplantology and Artificial Organs of the Ministry of Healthcare of the Russian Federation

<b>Parallel Symposium 5</b> <b>Progenitor cells and microenvironment factors</b> <i>Chairs – Ludmila Buravkova, Irina Shipunova</i>	
11:30-11:50	<b>Ex vivo expansion of hematopoietic umbilical vein precursors: the role of cellular and non-cellular microenvironment factors</b> Ludmila Buravkova, Institute of Biomedical Problems
11:50-12:10	<b>Changes in the stromal microenvironment in patients with leukemia</b> Irina Shipunova, Research Center for Hematology
12:10-12:25	<b>Evaluation of the role of the contact environment as a factor of adipocyte dedifferentiation</b> Maya Belyakova, Tver State Medical University
12:25-12:40	<b>Changes in the molecular and genetic profile of endometrial mesenchymal stem cells under 2D and 3D cultivation after sublethal heat exposure</b> Larisa Alekseenko, Institute of Cytology and Genetics RAS
12:40-12:50	<b>Activation of multipotent mesenchymal stromal cells using tumor necrosis factor alpha proceeded with the participation of interleukin-1 beta</b> Alyona Dorofeeva, Research Center for Hematology
12:50-13:00	<b>Molecular and genetic mechanisms of the functional activity regulation of MMSC in vitro under physiological hypoxia in vitro</b> Anna Poleshko, Institute of Biophysics and Cell Engineering, National Academy of Sciences of Belarus

<b>Parallel Symposium 6</b> <b>RU/EN+ </b> <b>Programmed cell death and new cell generation</b> <i>Chairs – Boris Zhivotovsky, Kseniya Rubina</i>	
14:00-14:30	<b>Metalloproteins complexes with cell membranes triggering programmed cell death</b> Yuri Vladimirov, Faculty of Medicine, Lomonosov Moscow State University
14:30-15:00	<b>Novel mechanisms of oxidative stress and its consequences</b> Eugene Podrez, Lerner Centre, Cleveland Clinic, USA
15:00-15:10	<b>Molecular mechanisms of the participation of the urokinase system in tumor progression and chemoresistance</b> Karina Rysenkova, National Cardiology Research Center Ministry of Health of the Russian Federation
15:10-15:20	<b>Changes in the functions of mitochondria, ROS production and therapeutic anti-aging efficacy of MMSCs</b> Egor Plotnikov, A.N. Belozersky Institute Of Physico-Chemical Biology
15:20-15:30	<b>Interaction of necroptosis, autophagy and apoptosis in mitotic disaster</b> Aleksandra Egorshina, Faculty Medicine, Lomonosov Moscow State University

<b>Parallel Symposium 7</b> <b>Neurogenesis and regenerative medicine in neurology</b> <b>Symposium dedicated to the memory of Korochkin L.I.</b> <i>Chairs – Galina Pavlova, Oleg Serov</i>	
14:00-14:20	<b>The diversity of GDNF and its role for regenerative medicine of the human nervous system</b> Galina Pavlova, Institute of Gene Biology, Russian Academy of Sciences
14:20-14:40	<b>Studying of the role of the CNTN6 gene in the early stages of human neurogenesis using a model of cerebral organoids</b> Tatyana Schneider, Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences
14:40-14:55	<b>Comparative transcriptome analysis of miRNAs and their mRNA targets in rat brain under the Semax neuropeptide treatment in experimental ischemia</b> Ivan Filippenkov, Institute of Molecular Genetics, Russian Academy of Sciences

14:55-15:10	<b>Molecular mechanisms of the urokinase system participation in directed axon growth, differentiation and survival of neurons, and nerve regeneration</b> Ekaterina Semina, Faculty of Medicine, Lomonosov Moscow State University
15:10-15:20	<b>Studying of the mutant phenotype of an isogenic cell model of Huntington's disease</b> Tuyana Malankhanova, Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences
15:20-15:30	<b>Development for automatic detection system of Oct4 gene expression <i>in vivo</i> and <i>in vitro</i></b> Andrey Kuzmin, Institute of Cytology Russian Academy of Sciences

<b>Parallel Symposium 8</b> <b>School of young scientists of the Russian Science Foundation</b> <b>Gene editing in regenerative medicine</b> <i>Chairs – Suren Zakiyan, Yelena Parfyonova, Maria Vorontsova</i>	
14:00-14:20	<b>Generation of transgenic induced pluripotent stem cells for studying the molecular and genetic mechanisms of the pathogenesis of Parkinson's disease and testing promising drugs</b> Sergey Medvedev, Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences
14:20-14:40	<b>Generation and testing of a genetic construct for CRISPR-mediated knockout of genome regulatory sequences, non-coding RNA genes, and protein genes characterized by a variety of splice forms</b> Maxim Karagyaur, Institute for Regenerative Medicine, Lomonosov Moscow State University
14:40-15:00	<b>Improving CRISPR-Cas technology for therapeutic applications</b> Natalya Logvina, Skolkovo Institute of Science and Technology
15:00-15:15	<b>Obtaining iPSCs from Cystic Fibrosis Patients and Editing the F508del Mutation in the CFTR Gene Using CRISPR/Cas9</b> Ekaterina Kondratyeva, Medical Genetic Research Center
15:15-15:30	<b>The functional role of RNA modification. Searching and studying the function of new mammalian methyltransferase RNAs.</b> Pyotr Sergiev, Institute of Functional Genomics, Lomonosov Moscow State University

<b>Parallel Symposium 9</b> <b>Matrix-based tissue engineering structures for regenerative medicine</b> <i>Chairs – Elena Gubareva, Sergei Chvalun</i>	
14:00-14:20	<b>HIF regulatory cascade in the regeneration of the skin and its appendages</b> Andrey Panteleev, Research Center "Kurchatov Institute"
14:20-14:40	<b>The role of extracellular matrix components in the creation of tissue-engineering structures</b> Elena Gubareva, Research Institute of Medical Primatology
14:40-14:55	<b>Viscoll Collagen: Biopolymer matrix for creating biomedical cell products and 3D tissue-engineering structures using 3D printing</b> Egor Osidak, «Imtek LLC»
14:55-15:05	<b>Role of the extracellular matrix in the endothelial-mesenchymal transition</b> Olga Grigoryeva, Institute for Regenerative Medicine, Medical Research and Education Center, Lomonosov Moscow University
15:05-15:15	<b>Biocatalysis in the synthesis of polyetheramides – promising biodegradable polymers for medicine</b> Maxim Nikulin, A.N. Belozersky Institute Of Physico-Chemical Biology
15:15-15:30	<b>Functional polymer and composite materials for contemporary medical technology</b> Sergey Chvalun, Research Center «Kurchatov Institute»

**PARALLEL SYMPOSIA**  
**NOVEMBER 22, 2019, FRIDAY**

<b>Parallel Symposium 10</b> <b>Mechanisms of intercellular communication</b> <b>in the processes of tissue repair and regeneration</b> <i>Chairs – Anastasia Efimenko, Larisa Litvinova</i>	
11:30-11:50	<b>The participation of non-coding regulatory RNAs secreted by mesenchymal stromal cells in tissue regeneration and repair</b> Anastasia Efimenko, Institute for Regenerative Medicine, Medical Research and Education Center, Lomonosov Moscow State University
11:50-12:05	<b>The role of regulatory cell subpopulations in the control of adipogenic differentiation of adipose tissue</b> Konstantin Kulebyakin, Faculty of Medicine, Lomonosov Moscow State University
12:05-12:20	<b>Interaction of Notch-VEGFR-extracellular matrix during the formation of capillary-like structures in a 2D model of co-cultivation of endothelial and mesenchymal cells</b> Irina Beloglazova, National Cardiology Research Center Ministry of Health of the Russian Federation
12:20-12:40	<b>Fundamental mechanisms of the interrelation between cell aging and decidualization of endometrial stromal cells in the context of female reproduction</b> Alexandra Borodkina, Institute of Cytology of the Russian Academy of Sciences
12:40-12:50	<b>MicroRNAs secreted within extracellular vesicles as potential mediators of the antifibrotic effect of mesenchymal stromal cells</b> Natalya Basalova, Institute for Regenerative Medicine, Medical Research and Education Center, Lomonosov Moscow State University
12:50-13:00	<b>3D-explant culture of murine spinal ganglion as a model for studying neurotrophins in regenerative medicine</b> Polina Klimovich, National Cardiology Research Center Ministry of Health of the Russian Federation
<b>Parallel Symposium 11</b> <b>Regenerative technologies in cardiology</b> <i>Chairs – Yelena Parfyonova, Suren Zakiyan, Mikhail Galagudza</i>	
11:30-11:50	<b>Epicardial cells. The key to heart regeneration?</b> Konstantin Dergilev, National Cardiology Research Center Ministry of Health of the Russian Federation
11:50-12:05	<b>Prospects for the applying of cardiomyocytes derived from human iPSC in cell replacement therapy for myocardial damage</b> Sofya Pavlova, Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences
12:05-12:20	<b>Calcium ion fluxes dynamics studying in cardiomyocytes obtained by differentiation of iPSC in patients with hypertrophic cardiomyopathy</b> Elena Dementieva, Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences
12:20-12:35	<b>The response of progenitor cells of arterial intima to angiotensin II and their possible role in the development of atherosclerosis</b> Alexander Balatsky, Faculty of Medicine, Lomonosov Moscow State University
12:35-12:50	<b>Biodegradable vascular patches for arterial reconstruction containing vascular endothelial growth factor</b> Larisa Antonova, Research Institute of Complex Problems of Cardiovascular Diseases
12:50-13:00	<b>Discussion</b>

<b>Parallel Symposium 12</b> <b>Gene therapy and genetic modification of cells</b> <i>Chairs – Andrey Kiyasov, Albert Rizvanov, Ekaterina Semina</i>	
11:30-11:45	<b>Design of cellular technologies for vascular regeneration</b> Irina Zakharova, Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences
11:45-12:00	<b>Perspectives for the employment of transdifferentiated multipotent mesenchymal stromal cells (MMSCs) for the correction of liver failure</b> Oleg Makeev, Ural State Medical University
12:00-12:15	<b>Using of thymidine kinase for negative selection of induced pluripotent stem cells</b> Alexey Menzorov, Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences
12:15-12:30	<b>Gene therapy approaches to the pharmacologic correction of periphery innervation disorders</b> Dmitriy Stambolsky, Lomonosov Moscow State University
12:30-12:40	<b>The studying of the antitumor and immunomodulating activity of mesenchymal stem cells with overexpression of interleukin</b> Daria Chulpanova, Kazan Federal University
12:40-12:50	<b>Reconstructed high density lipoproteins as a delivery system for reprogramming cells and tissues</b> Vasily Kudinov, Research Institute of General Pathology and Pathophysiology
12:50-13:00	<b>Immunomodulating properties of induced microvesicles derived from mesenchymal stem cells</b> Marina Gomzikova, Kazan Federal University

<b>Parallel Symposium 13</b> <b>New approaches, materials and constructs for bone tissue regeneration</b> Symposium dedicated to the memory of Omelyanenko N.P. <i>Chairs – Natalia Sergeeva, Sergey Barinov</i>	
11:30-11:50	<b>Cell technologies for the induction of skeletal tissue regeneration in the works of Prof. Omelyanenko N.P.</b> Roman Deev, Human Stem Cell Institute
11:50-12:05	<b>From fundamental research to novel cell technologies in traumatology and orthopedics (in memoriam N.P. Omelyanenko)</b> Alexey Kovalev, N.N. Priorov National Research Center for Traumatology and Orthopedics
12:05-12:25	<b>Bone Tissue Engineering – Cellular and Molecular Mechanisms</b> Dmitry Zubov, Institute of Genetic and Regenerative Medicine, National Academy of Medical Sciences of Ukraine
12:25-12:40	<b>Elastic hydrogel biomaterials with complex architecture for bone tissue regeneration</b> Andrey Tikhonov, Department of Material Science, Lomonosov Moscow State University
12:40-12:50	<b>Researching of the osteoinductive effect of a combination of growth factors BMP-2, PDGF and VEGF in a material based on demineralized bone matrix</b> Polina Teplova, Institute of Theoretical and Experimental Biophysics, Russian Academy of Sciences
12:50-13:00	<b>Ultra-porous ceramic bioresorbable materials with complex architecture for bone tissue regeneration</b> Snezhana Tikhonova, Department of Material Science, Lomonosov Moscow State University

<b>Parallel Symposium 14</b> <b>Induced Pluripotent Cells</b> <i>Chairs – Alexey Tomilin, Maria Lagarkova</i>	
11:30-11:45	<b>IPSCs and models of polyglutamine diseases</b> Maria Lagarkova, Federal research and clinical center of physical-chemical medicine FMBA
11:45-12:00	<b>The technology of iPSCs for research and development of approaches to the cellular therapy of Parkinson's disease</b> Igor Grivennikov, Institute of Molecular Genetics, Russian Academy of Sciences

12:00-12:15	<b>Heterochromatization of the pritelomeric region of the third chromosome containing large-scale duplication in a patient with undifferentiated mental retardation</b> Maria Gridina, Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences
12:15-12:30	<b>The role of long non-coding RNAs in the differentiation and maintenance of glioma stem cell pluripotency</b> Yury Rubtsov, Institute of Bioorganic Chemistry, Russian Academy of Sciences
12:30-12:45	<b>Studying the molecular mechanisms of arrhythmogenic cardiomyopathy on the model of iPSC cardiomyocytes: the role of GSK3B kinase</b> Alexander Khudyakov, Almazov National Medical Research Center Ministry of Health of Russia
12:45-13:00	<b>Genetic correction of neonatal diabetes mellitus to create a model for studying the disease</b> Alexandra Panova, Endocrinological Research Center of the Ministry of Health of the Russian Federation

**Parallel Symposium 15**  
**From basic research to clinical applications: Transplantation of Neural Crest-Derived Stem Cells as a Novel Approach to Stimulate Alveolar Bone Regeneration through Regulation of Osteogenesis and Angiogenesis**  
*Chairs – Wolf Grimm, Widera Darius*

14:00-14:10	<b>Chair`s introduction: Neural Crest-Derived Stem Cells as a Tool in Regenerative Medicine</b> Wolf Grimm, Periodontology, Dental Medicine, Faculty of Health, Witten/Herdecke University, Germany, Stem Cell Lab, Department for Personalized Medicine, Scientific Innovation Center, Stavropol State Medical University, Russian Federation
14:10-14:30	<b>Translational 3D Cell Culture Systems for Clinically Compliant Expansion of Adult Stem Cells and Isolation of Stem Cell-Derived Extracellular Vesicles</b> Widera Darius, Head of the Stem Cell Biology and Regenerative Medicine Group, Reading School of Pharmacy, University of Reading, United Kingdom
14:30-14:45	<b>Adult Neural Crest-Derived Stem Cells (NCSCs) for comparative research</b> Natella Erukashvily, Cell Technologies Lab, North West University, St. Petersburg, Russian Federation
14:45-15:00	<b>Characterization of Porous Fibroin Scaffolds for Regenerative Medical Application</b> Robert Smeets, Professor of Oral and Maxillofacial Surgery, Head of Division for Regenerative Orofacial Medicine, Heisenberg Professor for Regenerative Orofacial Medicine (DFG), Department of Oral Maxillofacial Surgery, University Medical Center Hamburg-Eppendorf, Hamburg, Germany
15:00-15:10	<b>Titanium nano-structured coatings as carrier material for Adult Neural Crest-Derived Stem Cell (NCSC) transplantation in a standardized bone defect sheep model</b> Alexander Dolgalev, Stavropol State Medical University, Department of General Practition Dentistry and Pediatric Dentistry, Stavropol, Russian Federation
15:10-15:20	<b>Using Micro-CT Imaging for the Phenotyping and Analysis of Sheep Bone Architecture</b> Igor Rzhepakovsky, Institute of Live Sciences, North Caucasian Federal University, Stavropol, Russian Federation
15:20-15:30	<b>Is Mechanical Dissociation a Viable Alternative to Enzymatic Digestion for the Isolation of Therapeutic Neural crest-related Stem Cells?</b> Allen J., Stem Cell Biology and Regenerative Medicine Group, Reading School of Pharmacy, University of Reading, United Kingdom Nikolay Didenko, Stem Cell Lab, Stavropol State Medical University, Russian Federation

**Parallel Symposium 16**  
**Gene and cell therapy in the treatment of malignant tumors**  
*Chairs – Nina Drize, Mikhail Maschan, Sergey Larin*

14:00-14:15	<b>Personalized adoptive immunotherapy by CAR T-cells for leukemia and lymphoma</b> Alexey Stepanov, Institute of Bioorganic Chemistry, Russian Academy of Sciences
14:15-14:30	<b>Experience in the use of cell immunotherapy in the treatment of solid tumors</b> Elena Abakushina, Tsyb Medical Radiological Research Center, Branch of the National Medical Research Radiological Center, Ministry of Health of the Russian Federation

14:30-14:45	<b>Possible risks of using progenitor cells of adipose tissue in patients with cancer</b> Pavel Karalkin, Herzen Moscow Cancer Research Institute
14:45-15:00	<b>From cells to tissues: Mass cytometry is the latest method for phenotyping cells in immunology and oncology</b> Olga Karpus, Helicon Company
15:00-15:10	<b>Clones of NK cells with the CD57 + NKG2C + phenotype have better viability compared to clones obtained from the CD57 + NKG2C- subpopulation</b> Maria Streltsova, Institute of Bioorganic Chemistry, Russian Academy of Sciences
15:10-15:30	<b>Gene-cell therapy: the experience of translational studies.</b> Sergey Larin, Dmitry Rogachev National Medical Research Center Of Pediatric Hematology, Oncology and Immunology.

### Parallel Symposium 17

#### Stem Cell Niches

*Chairs – Andrey Chagin, Igor Adameyko*

14:00-14:20	<b>Stroma as the basis of regenerative tissue</b> Pavel Makarevich, Institute for Regenerative Medicine, Medical Research and Education Center, Lomonosov Moscow State University
14:20-14:40	<b>Telocytes – interstitial stem cells of mesenchymal origin</b> Tatyana Sukhacheva, A.N. Bakulev National Medical Research Center of Cardiovascular Surgery
14:40-14:55	<b>The reaction of progenitor cells of rodent bone marrow upon the action of space flight factors and modeling of their effects</b> Elena Markina, Institute of Biomedical Problems of the Russian Academy of Sciences
14:55-15:10	<b>Mesenchymal stromal cells as potential coordinators of stem cell niche restoration</b> Georgy Sagaradze, Institute for Regenerative Medicine, Medical Research and Education Center, Lomonosov Moscow State University
15:10-15:20	<b>Secretion of pro-inflammatory cytokines by cells involved in bone tissue regeneration</b> Vladimir Malashchenko, Immanuel Kant Baltic Federal University
15:20-15:30	<b>In vitro morphofunctional characterization of rabbit limbal stem cells</b> Galina Pisugina, Institute of Cytology Russian Academy of Science

### Parallel Symposium 18

#### Biomaterials for regenerative medicine

*Chairs – Mikhail Shtilman, Elena Markvicheva*

14:00-14:15	<b>Biomaterials and regenerative medicine</b> Mikhail Shtilman, D. Mendeleev University of Chemical Technology of Russia
14:15-14:30	<b>The use of ferroelectric polymers in regenerative medicine</b> Valentin Kochervinsky, Karpov Institute of Physical Chemistry
14:30-14:45	<b>Porous polymeric materials for tissue engineering</b> Timofey Grigoryev, Research Center «Kurchatov Institute»
14:45-15:00	<b>Materials Based on Biopolymers for Biomedicine</b> Timur Tenchurin, Research Center «Kurchatov Institute»
15:00-15:15	<b>Chitosan biodegradable macroporous matrices for regenerative medicine</b> Tatyana Balabanova, Shemyakin-Ovchinnikov Institute of bioorganic chemistry Russian Academy of Sciences
15:15-15:30	<b>Tissue-engineering composite structures based on copolymers of lactic and glycolic acids, calcium phosphates and cells for bone tissue regeneration</b> Julia Nashchekina, Institute of Cytology of the Russian Academy of Sciences



**PARALLEL SYMPOSIA**  
**NOVEMBER 23, 2019, SATURDAY**

<b>Parallel symposium 19</b> <b>Translational research in regenerative medicine</b> <i>Chairs – Roman Vasiliev, Ilya Eremin, Mikhail Potapnev</i>	
11:30-11:50	<b>Comparative evaluation of the therapeutic efficacy of cell products</b> Ilya Eremin, Kurchatov Institute Research Center «Kurchatov Institute»
11:50-12:10	<b>Comparative analysis of the biological properties of adult neural crest-derived stem/progenitor cells from the hair follicle and skin dermis</b> Roman Vasiliev, Institute of Genetic and Regenerative Medicine, National Academy of Medical Sciences of Ukraine
12:10-12:25	<b>The experience minimally manipulated cell products using for the treatment of burns</b> Diana Alenik, Volga Research Medical University
12:25-12:35	<b>Feeder-free culture of human lip mucosal epithelium for cell transplantation in cornea diseases</b> Maksim Gerasimov, S.N. Fedorov NMRC «MNTK «Eye microsurgery»
12:35-12:45	<b>The safety of the clinical use of lipofilling and local injection of the stromal-vascular fraction of adipose tissue in cancer patients</b> Vyacheslav Vasiliev, FSBEI HE «South-Ural State Medical University» of the Ministry of Healthcare of the Russian Federation.
12:45-13:00	<b>Biodistribution evaluation of the mesenchymal stem cells and the effectiveness of cell therapy in the complex treatment of kidney tuberculosis</b> Natalia Yudintseva, Institute of Cytology Russian Academy of Science
<b>Parallel symposium 20</b> <b>Regenerative medicine technologies for muscle tissue repair</b> <i>Chairs – Irina Odintsova, Roman Deev, Andrey Pulin</i>	
11:30-11:50	<b>Methodology for studying the patterns of regenerative histogenesis</b> Irina Odintsova, S.M. Kirov Military Medical Academy
11:50-12:10	<b>Structural basis of muscle tissue regeneration and its optimization methodology</b> Roman Deev, Human Stem Cell Institute
12:10-12:25	<b><i>In vitro</i> test systems for molecular tools verification for the correction of hereditary muscular dystrophies</b> Ivan Yakovlev, Human Stem Cell Institute
12:25-12:40	<b>Gum stromal cell-based product for muscle tissue repair</b> Andrey Pulin, Kurchatov Institute Research Center «Kurchatov Institute»
12:40-12:50	<b>Skeletal muscle regeneration in animals with a mutation in the <i>dysf</i> gene</b> Olga Chernova, Kazan Federal University
12:50-13:00	<b>Studying of the differential expression and signaling pathways in the skeletal muscle of patients with heart failure after physical rehabilitation</b> Oksana Ivanova, Almazov National Medical Research Center Ministry of Health of Russia
<b>Parallel Symposium 21</b> <b>With the support of NASBio</b> <b>Biobanking for regenerative medicine</b> <i>Chairs – Veronika Sysoeva, Mikhail Khotin</i>	
11:30-11:45	<b>NASBio – a catalyst for the development of biobanking in the Russian Federation</b> Alexey Meshkov, President of NASBio, National Medical Research Center for Preventive Medicine of the Ministry of Healthcare of the Russian Federation
11:45-12:15	<b>The role of interdisciplinary interaction in the biobanks functioning: goals and forms</b> Elena Bryzgalina, Faculty of Philosophy, Lomonosov Moscow State University

12:15-12:30	<b>Scientific basis and practical aspects of human cell lines biobank development</b> Veronika Sysoeva, Faculty of Medicine, Lomonosov Moscow State University
12:30-12:45	<b>The experience in developing a biobank of cells for the production of allogeneic biomedical cell products</b> Mikhail Khotin, Institute of Cytology Russian Academy of Sciences
12:45-13:00	<b>Stem cell bank: 10 years route</b> Dmitry Ivolgin, Pokrovsky Stem Cell Bank

<b>Parallel Symposium 22</b> <b>Biofabrication and additive technologies in regenerative medicine</b> <i>Chairs – Vladimir Komlev, Natalya Sergeeva, Pyotr Timashev</i>	
11:30-11:50	<b>Formative biofabrication: from scaffolds to scaffolds</b> Vladimir Mironov, 3D Bioprinting Solutions
11:50-12:10	<b>Biomaterials, processes and fields in biofabrication technologies</b> Yuri Rochev, National University of Ireland
12:10-12:30	<b>Additive technologies for development of biomaterials for bone tissue regeneration</b> Valery Putlyaev, Faculty of Materials Science, Lomonosov Moscow State University
12:30-12:50	<b>Personalized gene-engineering bioceramic constructions</b> Alexander Fedotov, A.A. Baykov Institute of Metallurgy and Materials Science
12:50-13:00	<b>Photobiomodulation of cell metabolism in 3D systems</b> Polina Bikmulina, Sechenov University

## SPONSORSHIP SYMPOSIA NOVEMBER 21, 2019, THURSDAY

<b>Sponsorship Symposium 1</b> <b>Imaging flow cytometry for regenerative medicine: new opportunities</b> <i>(with the support of Luminex Corporation)</i>	
11:30-11:50	<b>The significance of NFκB as a universal switch of immunological processes in regenerative medicine</b> Valery Chereshnev, Boris Yushkov, Institute of Immunology and Physiology, Ural Branch of the Russian Academy of Sciences
11:50-12:10	<b>Clinical examples of the use of flow cytometry technology with visualization in pediatric practice</b> Svetlana Petrichuk, National Medical Research Center for Children's Health
12:10-12:30	<b>Amnis Imaging Flow Cytometers for Regenerative Medicine</b> Igor Kudryavtsev, Institute of Experimental Medicine, Pavlov First Saint Petersburg State Medical University
12:30-13:00	<b>Study of the effectiveness of nanoparticle-based targeted drug delivery systems using imaging flow cytometry</b> Maxim Nikitin, Moscow Institute of Physics and Technology
<b>Sponsorship Symposium 2</b> <b>Three-dimensional cell models: obtaining and processing images of matrices and spheroids</b> <i>(with the support of Bioline LLC)</i>	
14:00-14:15	<b>Software and optical solutions for the visualization of three-dimensional cell models</b> Ruben Saribekyan, LLC "Bioline"
14:15-14:35	<b>Practical experience in visualizing cell structures on support matrices on a Cytation imager (BioTek Instruments Inc.)</b> Marfa Egorikhina, Privolzhsky Research Medical University
14:35-14:50	<b>Decode 3D biology with THUNDER imagers</b> Andreas Fulterer, Advanced Workflow Specialist confocal, Life Science Research Confocal Division, Leica Microsystems, Germany
<b>Practical demonstrations</b>	
14:50-15:10	<b>Obtaining and processing images of three-dimensional matrixes with cells on Lionheart cell imager (BioTek Instruments Inc.)</b>
15:10-15:30	<b>Obtaining and processing images of spheroids on the THUNDER imager (Leica Microsystems)</b>

## NOVEMBER 22, 2019, FRIDAY

<b>Sponsorship Symposium 3</b> <b>Multi-Mix Analysis in Science and Medicine: Merck xMAP Technology</b> <i>(with the support of Merck LLC)</i>	
14:00-15:30	<b>Round table</b> <b>Moderators:</b> Albert Rizvanov, Kazan Federal University Marina Prokhorova, specialist of the multiplex analysis, Merck LLC

**POSTER SESSION**  
**NOVEMBER 21, 2019, THURSDAY**

Stand number	Presenter Name	Title
A-1	Samatoshenkov Igor Valerevich	<i>Igor Valerievich Samatoshenkov, Margarita Nikolaevna Zhuravleva, Yuri Alexandrovich Chelyshev</i> Gene therapy of chronic hind limb ischemia in rats
A-2	Fadeev Philip Olegovych	<i>Rustem Robertovich Islamov, Filip Olegovich Fadeev, Farid Vagizovich Bashirov, Vage Arshaluysovich Markosyan, Mikhail Evgenievich Sokolov, Andrei Alexandrovich Izmailov, Maria Alexandrovna Davleeva, Roman Vasilyevich Shevchenko, Tagir Farhatovich Minekaev, Damir Rinatovich Istragiya Istragimova Ibragimova Ibragimova Istragimova Istragimova Istragimova Istragimova Istragimova Istragimova Istragimova</i> The study of the effectiveness of cell-mediated gene therapy in combination with epidural electrostimulation on morphological and functional recovery of the spinal cord of a mini-pig with contusion injury
A-3	Gatina Dilara Zilbarovna	<i>Dilara Zilbarovna Gatina, Margarita Nikolaevna Zhuravleva, Ekaterina Evgenievna Garanina, Inur Ildusovich Salafutdinov, Albert Anatolyevich Rizvanov</i> The effect of co-expression of VEGF and FGF-2 on angiogenesis processes in vivo
A-4	Jawari Stalik Stanislavovich	<i>Maxim Nikolaevich Karagiaur, Alexandra Ivanovna Rostovtseva, Svetlana Aleksandrovna Litvinova, Stalik Stanislavovich Dzhauari, Vadim Yurievich Balabanyan, Ekaterina Vladimirovna Semina, Maxim Valerevich Mnikhovich, Anastasia Yuryevna Efimenko, Dmitry Viktorovich Stambolsky</i> Neuroprotective activity of cerebral neurotrophic factor and urokinase plasminogen activator combination in hemorrhagic stroke: proof-of-concept study
A-5	Shaimardanova Alice Almazovna	<i>Alisa Almazovna Shaimardanova, Daria Sergeevna Chulpanova, Valeria Vladimirovna Solovieva, Albert Anatolyevich Rizvanov</i> Development of a genetic construct encoding the genes of the $\alpha$ - and $\beta$ -subunit of human $\beta$ -hexosaminidase A and analysis of its functionality as part of a gene-cell medicine for the treatment of Tay-Sachs disease
A-6	Klementyeva Natalia Vladimirovna	<i>Natalia Vladimirovna Klementyeva, Vladimir Sergeevich Popov, Arthur Alexandrovich Isaev, Sergey Lvovich Kiselev</i> Generation of improved version of the vector for X-linked adrenoleukodystrophy gene therapy
A-7	Kuznetsova Alla Victorovna	<i>Alla Viktorovna Kuznetsova, Lyubov Aleksandrovna Rzhanova, Alexander Mikhailovich Kurinov</i> Effect of bFGF on signaling pathways and differentiation of retinal pigment epithelium cells of an adult eye
A-8	Orlova Yulia Mikhailovna	<i>Julia Mikhailovna Orlova, Irina Evgenievna Trubitsyna</i> The influence of BMP-2 and FGF-2 factors on the proliferation and differentiation of murine myoblasts C2C12 to osteoblasts
A-9	Pervushin Nikolay Viktorovich	<i>Nikolai Viktorovich Pervushin, Daniil Romanovich Bazanov, Victoria Yuryevna Savitskaya, Lada Vladimirovna Anikina, Marina Valentinovna Proskurnina, Natalya Aleksandrovna Lozinskaya, Gelina Sergeevna Kopeina</i> Study of the effectiveness of imidazoline alkoxyaryl derivatives action as potential inhibitors of the protein-protein interaction p53-MDM2
A-10	Kapusta Anastasia Alexandrovna	<i>Anastasia Alexandrovna Kapusta, Nikolai Viktorovich Pervushin, Boris Davidovich Zhitovovsky, Gelina Sergeevna Kopeina</i> Post-translational modifications of caspase-2 as a mechanism for regulating its function in tumor cells
A-11	Gorbunova Anna Sergeevna	<i>Anna Sergeevna Gorbunova, Tatyana Viktorovna Denisenko, Boris Davidovich Zhitovovsky</i> BNIP3 as a regulator of mitophagy and epithelial-mesenchymal transition

A-12	Korovina Daria Grigoryevna	<i>Daria Grigorievna Korovina, Irina Petrovna Savchenkova</i> Comparative analysis of efficiency of various inducers for myogenic differentiation of cattle's multipotent mesenchymic stem cells
A-13	Ezidakova Maria Igorevna	<i>Maria Igorevna Ezdakova, Ekaterina Andreevna Golikova, Irina Vyacheslavovna Adrianovna, Elena Romualdovna Andreeva, Lyudmila Borisovna Buravkova</i> Dynamics of induced osteocommitting of proliferatively inactive MSCs in tissue oxygen concentration conditions
A-14	Galitsyna Helena Valeryevna	<i>Elena Valeryevna Galitsyna, Tatyana Borisovna Bukharova, Anastasia Vitalevna Bobyleva, Alexander Sergeevich Dyakonov, Irina Aleksandrovna Krivosheeva, Mikhail Yuryevich Skoblov, Dmitry Vadimovich Goldstein</i> Regulation of osteogenic differentiation of multipotent mesenchymal stromal cells by kinase-3 $\beta$ glycogen synthase gene knockdown
A-15	Michurina Svetlana Sergeevna	<i>Svetlana Sergeevna Michurina, Yuri Sergeevich Stafeev, Irina Borisovna Beloglazova, Julia Dmitrievna Molokotina, Ekaterina Sergeevna Zubkova, Evgeni Konstantinovich Shevchenko, Alexander Vyacheslavovich Vorotnikov, Mikhail Yurievich Menshikov, Elena Viktorovna Parfenova</i> Interleukin-4 regulates glucose uptake, activation of insulin and STAT6-dependent signaling in 3T3-L1 adipocytes
A-16	Stafeev Yuri Sergeevich	<i>Yuri Sergeevich Stafeev, Svetlana Sergeevna Michurina, Nikita Vladimirovich Podkuychenko, Igor Aleksandrovich Sklyanik, Ekaterina Alekseevna Shestakova, Kamil Abusaidovich Yahyaev, Anatoly Vladimirovich Yurasov, Alexander Vyacheslavovich Vorotnikov, Mikhail Yuryevich Menshikov, Marina Vladimirovna Viktorovna Shaestova</i> Comparative study of beige differentiation of adipose tissue mesenchymal stromal cells in patients with morbid obesity and the presence / absence of type 2 diabetes mellitus
A-17	Kostyuk Natalya Valerievna	<i>Natalya Valerievna Kostyuk, Mikhail Vitalievich Chernorutsky, Maya Borisovna Belyakova, Mikhail Vladimirovich Minyaev, Margarita Borisovna Petrova</i> Changes in the composition of a mixed population of osteogenic cells in a long-term culture
A-18	Chernorutsky Michael Vitalievich	<i>Mikhail Vitalievich Chernorutsky, Olga Viktorovna Volkova, Mikhail Nikolaevich Kalinkin, Maya Borisovna Belyakova, Natalya Valerievna Kostyuk, Mikhail Vladimirovich Minyaev</i> The effect of preliminary hormone therapy with dexamethasone on osteogenic differentiation of rabbit adipose tissue multipotent cells
A-19	Sharonova Nina Valeryevna	<i>Nina Sharonova, Rimma Alekseevna Poltavtseva, Viktor Yurievich Timoshenko, Vladimir Aleksandrovich Oleinikov, Elena Viktorovna Svirschevskaya</i> The effect of silicon-based nanoparticles on the differentiation of multipotent mesenchymal stromal cells
A-20	Yurova Kristina Alekseevna	<i>Kristina Alekseevna Yurova, Valeria Vladimirovna Shupletsova, Olga Gennadyevna Haziakhmatova, Vladimir Vladimirovich Malashchenko, Egor Olegovich Shunkin, Yuri Petrovich Sharkeev, Ekaterina Gennadyevna Komarova, Valentina Vadimovna Chebodaeva, Pavel Aleksandrovich Ivanov, Igor Albertvinovich Khlusov Litari, Larisa Sergeevna Litvinova</i> The effect of 3D-matrices that mimic regenerating bone tissue on the differentiation potential of multipotent mesenchymal stromal cells
A-21	Buyev Denis Olegovich	<i>Alexei Mikhailovich Emelin, Denis Olegovich Buev, Alexandra Alekseevna Slabikova, Ivan Antonovich Yakovlev, Roman Vadimovich Deev</i> Quantification of the myogenic differentiation of the C2C12 cell line using polyethylene glycol and induction media in vitro
A-22	Kulebyakin Konstantin Yurievich	<i>Konstantin Yurevich Kulebyakin, Nikita Sergeevich Voloshin, Anton Aleksandrovich Kartoshkin, Dmitry Kuzmich Martynov</i> Immortalized cell lines exhibit reduced differentiation potential compared to primary human cell cultures
A-23	Kulebyakin Konstantin Yurievich	<i>Konstantin Yurevich Kulebyakin, Petr Alekseevich Tyurin-Kuzmin, Nikita Sergeevich Voloshin, Alexandra Vladimirovna Stepanova</i> Reduced adipogenic potential of MSCs obtained from donors with insulin resistance

A-24	Gorkun Anastasia Aleksseevna	<i>Anastasia Alekseevna Gorkun, Daria Petrovna Revokatova, Irina Mikhailovna Zurina, Nastasya Vladimirovna Kosheleva, Larisa Nikolaevna Skuratovskaya, Irina Nikolaevna Saburina</i> Endothelial and osteogenic double differentiation of spheroids from adipose tissue stromal cells
A-25	Pavlova Svetlana Andreevna	<i>Svetlana Andreevna Pavlova, Anastasia Alexandrovna Chulkova, Sergey Feliksovich Drozd, Lyudmila Grigoryevna Zakharova, Nadezhda Sergeevna Samoilenkova, Alexander Vladimirovich Revishchin, Galina Valerievna Pavlova</i> The study of molecular markers of migrating human glioma cells of various degrees of malignancy
A-26	Lyakhova Irina	<i>Irina Lyakhova, Korneyko Maria, Zaitsev Sergey, Bryukhovetsky Igor, Khotimchenko Yuri</i> G-CSF enhances TGF- $\beta$ expression in tumor tissue of an experimental glioblastoma model in rats
A-27	Moskaleva Elizaveta Yuryevna	<i>Elizaveta Yuryevna Moskaleva, Elena Solomonovna Zhorova, Julia Pavlovna Semochkina, Valentina Georgievna Shuvatova, Alla Valerievna Rodina, Vladimir Pavlovich Saprykin</i> The effect of mesenchymal stem cells from different mouse tissues on tumor growth
A-28	Melekhin Vsevolod Viktorovich	<i>Vsevolod Viktorovich Melekhin, Anna Vladimirovna Shcheglova, Oleg Germanovich Makeev</i> Induced overexpression of the KLOTHO gene inhibits cell growth of human embryonic rhabdomyosarcoma
A-29	Filin Ivan Y urievich	<i>Ivan Yuryevich Filin, Kristina Viktorovna Kitaeva, Daria Sergeevna Chulpanova, Albert Anatolyevich Rizvanov, Valeria Vladimirovna Solovieva</i> Analysis of the interaction of extracellular vesicles of colon carcinoma cells with human T-lymphocytes in vitro
A-30	Konyshev Konstantin Vyacheslavovich	<i>Konstantin Vyacheslavovich Konyshev, Sergey Vladimirovich Sazonov</i> The relationship between changes in expression levels of the Ki67 proliferation marker and estrogen receptors in regional breast cancer metastasis
A-31	Sazonov Sergey Vladimirovich	<i>Sergey Vladimirovich Sazonov, Alexander Alexandrovich Diamond, Sergey Mikhailovich Demidov</i> Tumor stem cells in breast carcinoma
A-32	Abdrakhmanova Ilmira Ildarovna	<i>Ilmira Ildarovna Abdrakhmanova, Daria Sergeevna Chulpanova, Vladislav Moiseevich Chernov, Valeria Vladimirovna Solovieva, Elena Yuryevna Zakirova, Albert Anatolyevich Rizvanov</i> Analysis of antitumor activity of dog mesenchymal stem cells expressing tumor suppressor genes and immunomodulator genes in vitro
A-33	Konoplyannikov Michael Anatolevich	<i>Mikhail Anatolyevich Konoplyannikov, Victor Yuryevich Timoshenko, Yulia Valeryevna Kargina, Gaukhar Maratovna Yusubalieva, Vladimir Anatolyevich Kalsin, Anatoly Georgievich Konoplyannikov, Vladimir Pavlovich Baklaushev, Petr Sergeevich Timashev</i> The complex of salinomycin with silicon nanoparticles effectively inhibits tumor growth in vitro and in vivo
A-34	Kitaeva Kristina V.	<i>Kristina V. Kitaeva, Daria S. Chulpanova, Tikhon S. Prudnikov, Sevindzh K. Kletukhina, Albert A. Rizvanov, Valerya V. Solovyeva</i> Analysis of the interaction and resistance to cisplatin of tumor, immune and stromal cells in co-culture
A-35	Tazetdinova Leysan Gazinurovna	<i>Leysan Gazinurovna Tazetdinova, Svetlana Sergeevna Arkhipova, Svetlana Anatolievna Sofronova, Aysyla Ildarovna Mullagulova, Mikhail Olegovich Mavlikeev, Valeria Vladimirovna Solovieva, Albert Anatolyevich Rizvanov</i> Creation of a xenograft model of human neuroblastoma on immunocompetent mice
A-36	Kolesnikova V.A.	<i>V.A. Kolesnikova, N.S. Samoilenkova, E.A. Savchenko, S.R. Drozd, A.V. Revishchin, G.V. Pavlova</i> Study of CD133 + marker significance in the proliferative potential of glioblastoma cells and search for ways to control the proliferation and differentiation of these cells
A-37	Menshih Ksenia Andreevna	<i>Ksenia Andreevna Menshih, Vera Vladimirovna Voinova, Tatyana Konstantinovna Makhina, Garina Aleksandrovna Bonartseva, Konstantin Voldemarovich Shaitan, Anton Pavlovich Bonartsev</i> Experimental model of tumor cell growth on poly-3-hydroxybutyrate microspheres

A-38	Petrakova Natalia Valeryevna	<i>Natalia V. Petrakova, Ekaterina Alekseevna Kuvshinova, Irina Konstantinovna Sviridova, Yaroslav Dmitrievich Shansky, Natalya Sergeevna Sergeeva, Vladimir Sergeevich Komlev, Sergey Mironovich Barinov</i> Development of a bisphosphonate-octacalcium phosphate system for the treatment of tumor lesions of bone tissue
A-39	Kostolomov Helena Gennadievna	<i>Elena Gennadyevna Kostolomova</i> The role of proliferation and apoptosis in the formation of scar tissue
A-40	Trubitsyna Irina Evgenievna	<i>Irina Evgenievna Trubitsina, Zaira Magomedovna Abdulatipova, Julia Mikhailovna Orlova, Galina Grigorievna Varvanina</i> Disorganization of the rhythm of regeneration processes
A-41	Rodimova Svetlana Alekseevna	<i>Svetlana Alekseevna Rodimova, Daria Sergeevna Kuznetsova, Nikolai Viktorovich Bobrov, Dmitry Georgievich Reunov, Natalya Vsevolodovna Vdovina, Vladimir Evgenievich Zagainov, Elena Vadimovna Zagainova</i> Liver Metabolic Imaging In The Regeneration Process
A-42	Nefedova Svetlana Evgenievna	<i>Svetlana Evgenievna Nefedova, Kirill Nikolaevich Novikov, Alexander Nikolaevich Velikanov, Harlampy Panteleevich Tiras</i> New biophysical approaches to the registration of regeneration and phagocytosis of planaria
A-43	Boris Kim	<i>Boris Kim, Maria Sergeevna Rebenkova, Julia Viktorovna Rogovskaya, Alexandra Enheevna Gombozhapova, Vyacheslav Valerievich Ryabov</i> The dynamics of myocardial infiltration by IL-10+/Stabilin1+ macrophages during post-stroke myocardial repair
A-44	Nikitina Maria Petrovna	<i>Maria Petrovna Nikitina, Andrei Vladimirovich Elchaninov, Anastasia Vyacheslavovna Lokhonina, Andrei Vitalevich Makarov, Timur Khaisamudinovich Fathudinov</i> Expression profiles of genes associated with inflammatory processes in kupffer cells during liver regeneration
A-45	Salafutdinov Inur Ildusovich	<i>Dilara Zilbarovna Gatina, Ekaterina Evgenievna Garanina, Margarita Nikolaevna Zhuravleva, Inaz Marselevich Gazizov, Inur Ildusovich Salafutdinov</i> Proangiogenic activity of mononuclear cells from human umbilical cord genetically modified by recombinant adenoviruses
A-46	Belostotskaya G.B.	<i>G.B. Belostotskaya, A.A. Warsaw, B.A. Paramonov, E.S. Galimova, M.M. Galaguz</i> «Cell-inside-cell» structures as a way of reproducing new cells from tissue-specific stem cells during the development, renewal and regeneration of organs and tissues
A-47	Burmatova Alexandra Yuryevna	<i>Alexandra Yurievna Burmatova</i> Features of the participation of KMB-2 in the regulation of post-traumatic bone tissue regeneration in conditions of immobilization osteoporosis
A-48	Stolbovaya Anastasia Yuryevna	<i>Anastasia Yuryevna Stolbovaya, Ilya Valerievich Smirnov, Agnia Alexandrovna Pinevich, Natalya Levonovna Vartanyan, Daria Sergeevna Semenova, Anna Borisovna Malashicheva, Marina Platonovna Samoilovich</i> Monoclonal antibodies to human endogline cause changes in the functional properties of EA.hy926 and HUVEC endothelial cells
A-49	Dyleva Yulia Alexandrovna	<i>Daria Andreevna Borodkina, Julia Aleksandrovna Dyleva, Olga Viktorovna Gruzdeva, Ekaterina Vladimirovna Belik</i> The effect of coronary heart disease on the production of fibroblast growth factor-21 local fat depots
A-50	Dyleva Yulia Alexandrovna	<i>Julia Alexandrovna Dyleva, Daria Andreevna Borodkina, Olga Viktorovna Gruzdeva, Ekaterina Vladimirovna Belik</i> Features of sensitivity to leptin of local fat depots in patients with coronary heart disease and cardiac failure
A-51	Morina Irina Yuryevna	<i>Irina Yuryevna Morina, Elena Viktorovna Mikhailova, Irina Vladimirovna Romanova</i> Immunohistochemical study of the rat brain's orexynergic system after ischemic damage

A-52	Subbot Anastasia Mikhailovna	<i>Anastasia Mikhailovna Subbot, Ivan Alexandrovich Novikov, Oleg Alexandrovich Gusev, Natalya Evgenievna Gogoleva, Elena Ilyasovna Shagimardanova, Sabina Aleksandrovna Kondratieva</i> The effect of neodymium chloride on cell cultures in the absence of free phosphates
A-53	Baglay Alexandra Ivanovna	<i>Alexandra Ivanovna Baglay, Maria Nikolaevna Balatskaya, Alexander Vladimirovich Balatsky, Vsevolod Arsenievich Tkachuk</i> Changes in platelet activity through T-cadherin ligands: low density lipoproteins and adiponectin
A-54	Novikova Yulia Petrovna	<i>Julia Petrovna Novikova, Valentina Antoninovna Poplinskaya, Eleanor Norayrovna Grigoryan</i> Remodeling of eye retina under conditions of organotypical cultivation in vitro and retina damage in vivo in lower and superior vertebrates animals
A-55	Kolevatyh Ekaterina Petrovna	<i>Ekaterina Petrovna Kolevatykh</i> Influence of metabiotic drugs on regenerative processes of experimental animals
A-56	Shafei Elena Valeryevna	<i>Elena Valeryevna Shafei, Julia Petrovna Novikova, Maria Anatolyevna Alexandrova</i> Study of regenerative possibilities of pigment epithelium of human retina on the example of the arpe-19 line
A-57	Khalyavkin Alexander Viktorovich	<i>Alexander Viktorovich Khalyavkin</i> Aging of tissue-specific stem cells in situ – causes, mechanisms, consequences
A-58	Yurova Kristina Aleksееvna	<i>Christina Yu Alekseevna Birov, Valeria Shupletsova, Olga G. Haziahmatova, Vladimir Vladimirovich Malashenko, Igor O. Shunkin, Yuri Petrovich Sharkeev, Ekaterina G. Komarova Valentina Vadimovna Chebodaeva, Pavel Ivanov, Igor Albertovich Khlusov, S. Larisa Litvinova</i> Assessment of the morphological state of multipotent mesenchymal stromal cells upon cultivation in the presence of three-dimensional matrices imitating the mineral substance of regenerative bone tissue
A-59	Gorkov Dmitry Alexandrovich	<i>Dmitry Alexandrovich Bokov, Dmitry Alexandrovich Gorkov, Andrey Alexandrovich Slobodskov, Svetlana Viktorovna Notova</i> Restoration of tissue elements of the placenta after damage by copper nanoparticles: assessment of the role of phosphorylating tyrosine kinases – protein products of the SRC gene
A-60	Stupnikova Alyona Sergeevna	<i>Alena Sergeevna Stupnikova, Irina Sergeevna Zakharova, Alexander Igorevich Shevchenko, Suren Minasovich Zakiyan</i> Development of approaches to the use of mitotically inactivated vascular cells in regenerative medicine
A-61	Antonova Larisa Valeryevna	<i>Larisa Valerievna Antonova, Evgenia Andreevna Senokosova, Vladimir Nikolaevich Silnikov, Evgenia Olegovna Krivkina, Andrei Vladimirovich Mironov, Leonid Semenovich Barbarash</i> Biofunctionalization of biodegradable small diameter vascular prostheses with RGD peptides: results of an experimental study
A-62	Popov Guri Ivanovich	<i>Guri Ivanovich Popov, Pavel Vasilyevich Popryadukhin, Galina Yuryevna Yukina, Valery Nikolaevich Vavilova, Vladimir Evgenievich Yudin, Elena Mikhailovna Ivankova, Irina Petrovna Dobrovolskaya, Natalia Vladimirovna Smirnova</i> The role of mesenchymic stem cells in the formation of tissue-engineered vascular implant based on a biodegradable matrix from poly(l-lactide)
A-63	Basok Yulia Borisovna	<i>Julia Borisovna Basok, Alexei Mikhailovich Grigoryev, Lyudmila Anfilofevna Kirsanova, Evgeny Abramovich German, Alexandra Dmitrievna Kirillova, Victor Ivanovich Sevastyanov</i> Creation of tissue-engineering construct of cartilage tissue based on micronized tissue-specific decellularized matrix of pig articular cartilage
A-64	Andreev Andrei Yurievich	<i>Yuri Vladislavovich Andreev, Andrei Yurievich Andreev, Sergey Petrovich Domogatsky, Egor Olegovich Osidak</i> Development of an artificial analogue of the cornea based on collagen



A-65	Sotnichenko Alexander Sergeevich	<i>Karina Igorevna Melkonyan, Alexander Sergeevich Sotnichenko, Irina Valerievna Gilevich, Tatyana Viktorovna Rusinova, Yana Andreyevna Yutskevich, Anton Vladimirovich Karakulev, Sergey Borisovich Bogdanov, Ilya Mikhailovich Bykov, Vladimir Alekseevich Porkhanov, Andrei Nikolaevich Redko, Sergey Nikolaevich Alekseenko</i> Comparative characteristics of the results of decellularized and recellularized pig skin matrices implantation
A-66	Nikolaeva Anna Alexandrovna	<i>Vladimir Viktorovich Rozanov, Anna Aleksandrovna Nikolaeva, Igor Vasilievich Matveychuk, Alexander Petrovich Chernyaev</i> Innovative low-dose radiation sterilization technology for bone implants
A-67	Sichkar Daria Alexandrovna	<i>Daria Alexandrovna Sichkar, Alexandra Dugarovna Baldanshirieva, Julia Vladimirovna Babushkina, Oleg Germanovich Makeev</i> 3D bioequivalent of skin based on medium-molecular peptides and living cells
A-68	Eliseeva Yulia Igorevna	<i>Julia Igorevna Eliseeva</i> Organs on a chip as an alternative to traditional cell culture and animal models
A-69	Zorin Vadim Leonidovich	<i>Vadim Leonidovich Zorin, Alla Ivanovna Zorina, Arthur Alexandrovich Isaev</i> SPRS-THERAPY®: correction of age-changed skin. skin passport
A-70	Politko Maksim Olegovich	<i>Maxim Olegovich Politko, Anna Ivanovna Prokaeva, Alexandra Yurievna Tsidulko, Elvira Vitalievna Grigorieva</i> The effect of a combination of zoetil and a dominator on the brain tissue of experimental animals in in vivo model system
A-71	Kovalev Alexey Vyacheslavovich	<i>Alexey Vyacheslavovich Kovalev</i> In vivo bioreactor for organotypic skin regeneration
A-72	Chermnykh Elina Sergeevna	<i>Elina Sergeevna Chermnykh, Ekaterina Pavlovna Kalabusheva, Egor Olegovich Osidak, Sergey Petrovich Domogatsky, Sergey Vladimirovich Krashennnikov, Sergey Ivanovich Belousov, Ekaterina Andreevna Vorotelyak</i> The effect of a high density matrix on the behavior of human skin dermis cells in three-dimensional structures
A-73	Gafarova Elvira Razitovna	<i>Elvira Razitovna Gafarova, Alexey Eduardovich Lazhko, Ilya Alexandrovich Bazhanov, Byron Simbarash Kapomba, Anastasia Sergeevna Kuryanova, Ekaterina Andreevna Grebenik, Petr Sergeevich Timashev</i> Decellularization of the aortic valve in the environment of supercritical carbon dioxide
A-74	Anastasia Kruchinina	<i>Anastasia Kruchinina, Julia Yudicheva, Alexey Venediktov</i> Research of decellularized xenogenic origin matrixes in in vitro and in vivo tests
A-75	Alexandrushkina Natalya Andreevna	<i>Natalia Andreevna Alexandrushkina, Vladimir Sergeevich Popov, Natalia Vladimirovna Danilova, Alexander Vadimovich Loboda, Pavel Georgievich Malkov, Pavel Igorevich Makarevich</i> Preclinical evaluation of the effectiveness of cell sheets from mesenchymal stromal cells for healing of deep soft tissue defects
A-76	Orlova Nadezhda Valeryevna	<i>Nadezhda Valerievna Orlova, Alexander Nikolaevich Muravyov, Tatyana Ivanovna Vinogradova, Natalya Mikhailovna Yudintseva, Julia Alexandrovna Nashchekina, Alexander Anatolyevich Lebedev, Magomedadyk Gasanovich Sheikhov, Petr Kazimirovich Yablonsky</i> Replacing a rabbit bladder defect using allogeneic tissue-engineered products
A-77	Gryadunova Anna Alexandrovna	<i>Anna Alexandrovna Gryadunova, Sergey Alexandrovich Rodionov, Elizaveta Valerievna Kudan, Yousef Dzhorzhevich Hesuani, Vladimir Alexandrovich Mironov, Elena Anatolievna Bulanova</i> Cytoskeletal perturbants affect chondrospheres fusion and flattening
A-78	Lykov Alexander Petrovich	<i>Alexander Petrovich Lykov, Maria Alexandrovna Surovtseva, Olga Vladimirovna Poveschenko, Natalya Anatolyevna Bondarenko, Irina Innokentyevna Kim, Evgeniya Viktorovna Yankayte</i> The effect of the plasma from patients with trophic ulcers on the functional properties of cells involved in wound healing

A-79	Neustroeva Olga Andreevna	<i>Olga Andreevna Neustroeva, Alexander Maazovich Aymaletdinov, Sirina V. Kurbangaleva, Albert Anatolyevich Rizvanov, Marina Olegovna Gomzikova</i> Evaluation of the immune response after intravenous administration of artificial microvesicles
A-80	Rastorgueva Anna Andreevna	<i>Anna Andreevna Rastorguyeva, Tatyana Alekseevna Astrelina, Vitaly Andreevich Brunchukov, Daria Yurievna Usupzhanova, Irina Vladimirovna Kobzeva, Victoria Andreyevna Nikitina, Sergey Vladimirovich Lishchuk, Elena Aleksandrovna Dubova, Inna Mikhailovna Barabash, Anastasia Evgenievna Makhova, Valentin Andreevich Brumberg, Tatyana Vasilyevna Karaseva, Ekaterina Igorevna Dobrovolskaya, Elena Evgenievna Lomonosova, Marina Aleksandrovna Taratonenkova, Tatyana Fedorovna Malivanova, Andrey Yurievich Bushmanov, Alexander Sergeevich Samoilo</i> Evaluation of the therapeutic potential of the conditioned medium form mesenchymal stem cells at chemical burns in laboratory animals
A-81	Butorina Nina Nikolaevna	<i>Anna Nikitichna Novokreschenova, Nina Nikolaevna Butorina, Olga Viktorovna Payushina, Olga Nikolaevna Sheveleva, Elena Ivanovna Domarackaya</i> On the mechanism of the influence of exosomes secreted by mesenchymal stromal cells on in vitro myogenesis
A-82	Sarycheva Marina Vladislavovna	<i>Marina Vladislavovna Sarycheva, Polina Aleksandrovna Golubinskaya, Sergey Viktorovich Nadezhdin, Yuri Evgenievich Burda</i> Relief of imiquimod-induced psoriasis in rats by secretion of multipotent mesenchymal stromal cells
A-83	Solovieva Valeria Vladimirovna	<i>Daria Sergeevna Chulpanova, Sevindzh Kamalovna Kletukhina, Leysan Gazimurovna Tazetdinova, Albert Anatolyevich Rizvanov, Valeria Vladimirovna Solovieva</i> Analysis of the antitumor properties of extracellular vesicles of mesenchymal stem cells with overexpression of a tumor necrosis factor-related apoptosis-inducing ligand (TRAIL)
A-84	Efendieva Zulfia Nurudinovna	<i>Zulfia Nurudinovna Efendieva, Timur Khaisamudinovich Fathudinov, Inna Anatolyevna Apolikhina</i> The use of autologous platelet-rich plasma in the treatment of women with infertility with a thin endometrium
A-85	Dolgushkin Dmitry Alexandrovich	<i>Pisareva E.V., Vlasov M.Yu., Volova L.T., Dolgushkin D.A., Daniel M.A., Nefedova I.F.</i> Innovative allogeneic calcium-containing material for the treatment of metabolic diseases of bone tissue
A-86	Lazarev Vladimir Anatolevich	<i>Dmitry Alexandrovich Dolgushkin, Vladimir Anatolevich Lazarev, Natalya Nikolaevna Sarbaeva, Pavel Mikhailovich Zelter</i> A new way to assess the quality of newly formed regenerates after chondroplasty with platelet-rich autoplasm (experimental study)
A-87	Alexandrova Svetlana Alekseevna	<i>Svetlana Alekseevna Alexandrova, Julia Alexandrovna Nashchekina, Mikhail Georgievich Khotin, Sergey Viktorovich Nadezhdin, Ekaterina Vladimirovna Zubareva, Lyubov Anatolyevna Pokrovskaya, Miralda Ivanovna Blinova, Natalya Arkadyevna Mikhailova</i> Assessment of the specific activity of the conditioned medium obtained in the process of differentiation of human MSCs in the osteogenic direction
A-88	Panova Ina Georgievna	<i>Ina Georgievna Panova, Yulia Vyacheslavovna Sukhova, Alexander Sergeevich Tatikolov, Rimma Alekseevna Poltavtseva, Tatyana Yuryevna Ivanets, Gennady Tikhonovich Sukhikh</i> The bilirubin content in the vitreous body of the human eye in prenatal development
A-89	Rybtsov Stanislav Alexandrovich	<i>Stanislav Aleksandrovich Rybtsov, Tatyana Nikolaevna Berezina</i> Monitoring ontogenesis of hematopoiesis and approaches to assessing its development and age-related changes
A-90	Panova Ina Georgievna	<i>Ina Georgievna Panova, Maria Dmitrievna Chibireva, Rimma Alekseevna Poltavtseva</i> Catecholamins in eye tissues in prenatal human development
A-91	Komova Anastasia Valeryevna	<i>Anastasia Valerievna Komova, Konstantin Vladimirovich Dergilev, Zoya Ivanovna Tsokolaeva, Elizaveta Izrailevna Ratner, Elena Viktorovna Parfenova</i> Characterization of progenitor epicardial cells from neonatal mouse hearts

A-92	Starkova Tatyana Yuryevna	<i>Tatyana Yuryevna Starkova, Anton Vladimirovich Belyaev, Sergey Vyacheslavovich Ponomartsev, Alexey Nikolaevich Tomilin</i> Non-histone proteins HmgB1 and HmgB2 in chromatin of mouse embryonic stem cells
A-93	Anatskaya Olga Vladimirovna	<i>Olga Vladimirovna Anatskaya, Andrei Leonidovich Runov, Maxim Sergeevich Vonsky, Marianna Viktorovna Harchenko, Sergey Vladimirovich Ponomartsev, Artem Uristemovich Elmuratov, Alexander Evgenievich Vinogradov</i> Violation of postnatal organogenesis of the heart after neonatal lactose intolerance
A-94	Grigoryeva Elena Victorovna	<i>Elena Viktorovna Grigorieva, Tuyana Bairovna Malankhanova, Sofya Viktorovna Pavlova, Elizaveta Ivanovna Ustyantseva, Sergey Petrovich Medvedev, Suren Minasovich Zakiyan, Anastasia Aleksandrovna Malakhova</i> Modern approaches to the study of neurodegenerative diseases in vitro
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A-96	Savchenkova Irina Petrovna	<i>Irina Petrovna Savchenkova, Ekaterina Alexandrovna Savchenkova, Julia Alekseevna Osipova</i> Obtaining cells from mouse embryonic stem cells with phenotype similar to monocytes and macrophages
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A-98	Shilina Maria Alexandrovna	<i>Maria Alexandrovna Shilina, Denis Nikolaevich Silachev, Natalya Alekseevna Pugovkina, Irina Viktorovna Kozhuharova, Olga Gennadievna Lyublinskaya, Nikolai Nikolaevich Nikolsky, Tatyana Mikhailovna Grinchuk</i> Human chorionic MSC in vitro
A-99	Panova Alexandra Vitalievna	<i>Alexandra Vitalievna Panova, Alexandra Nikitichna Bogomazova, Maria Andreevna Lagarkova, Sergey Lvovich Kiselev</i> X-chromosome inactivation does not correlate with AR gene methylation in induced human pluripotent stem cells
A-100	Khorolskaya Yulia Igorevna	<i>Julia Igorevna Khorolskaya, Olga Igorevna Alexandrova, Galina Alekseevna Pisugina, Kirill Eduardovich Zhurenkov, Daria Alexandrovna Perepletchikova, Tatyana Vyacheslavovna Mashel, Natalya Arkadyevna Mikhailova, Miralda Ivanovna Blinova</i> Limbal stem cells derived from pluripotent stem cells as a component of tissue engineering cornea
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A-102	Surovtseva Maria Alexandrovna	<i>Maria Alexandrovna Surovtseva, Igor Alekseevich Iskakov, Olga Vladimirovna Poveschenko, Alexander Petrovich Lykov, Irina Innokentyevna Kim, Evgeniya Viktorovna Yankayte, Natalya Anatolyevna Bondarenko, Natalya Petrovna Bgatova, Alexander Nikolaevich Trunov, Valery Vyacheslavovich Chernykh</i> Characteristics of human limb stem cells depending on the isolation method and cultivation conditions
A-103	Kim Irina Innokentievna	<i>Irina Innokentievna Kim, Alexander Petrovich Lykov, Maria Alexandrovna Surovtseva, Olga Vladimirovna Poveschenko, Natalya Anatolyevna Bondarenko, Evgeniya Viktorovna Yankayte</i> The influence of plasma of patients with trophic ulcers on the functions of dermal fibroblasts, mesenchymal stem and endothelial cells

A-104	Vetoshkin Konstantin Alexandrovich	<i>Konstantin Aleksandrovich Vetoshkin, Natalya Vasilievna Isaeva, Maria Alexandrovna Butolina, Natalya Viktorovna Minaeva, Natalya Alexandrovna Zorina, Marina Nikolaevna Khorobrykh</i> The results of a study of the number of aldehyde dehydrogenase-positive mesenchymal stem cells from donor bone marrow
A-105	Sukhacheva Tatyana Vladimirovna	<i>Tatyana Vladimirovna Sukhacheva, Natalya Viktorovna Nizyaeva, Maria Viktorovna Samsonova, Andrey Lvovich Chernyaev, Alexander Ivanovich Schegolev, Roman Andreevich Serov</i> Telocytes – interstitial stem cells of mesenchymal origin
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A-107	Andreeva Natalya Vyacheslavovna	<i>Natalya Vyacheslavovna Andreeva, Kirill Vyacheslavovich Zotov, Vladimir Isaakovich Yusupov, Alexander Vadimovich Belyavsky</i> Hydrogen sulfide protects mesenchymal stem and melanoma cells from the negative effects of infrared laser radiation
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A-109	Tsokolaeva Zoya Ivanovna	<i>Zoya Ivanovna Tsokolaeva, Konstantin Vladimirovich Dergilev, Maria Alexandrovna Boldyreva, Anastasia Valerievna Komova, Elena Viktorovna Parfenova</i> Development of a method for visualisation of progenitor epicardial cells after a heart attack
A-110	Markina Elena Alexandrovna	<i>Elena Aleksandrovna Markina, Irina Vyacheslavovna Andrianova, Elena Viktorovna Sotnezova, Lyudmila Borisovna Buravkova</i> The reaction of rodent bone marrow progenitor cells to the action of space flight factors and modeling of their effects
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A-112	Alekseeva Olga Yuryevna	<i>Olga Yurievna Alekseeva, Polina Ivanovna Bobyleva, Elena Romualdovna Andreeva</i> The effect of short hypoxic stress on the phenotype and secretom of monocyte-derived macrophages when interacting with mesenchymal stromal cells
A-113	Usupzhanova Daria Yuryevna	<i>Daria Yurievna Usupzhanova, Tatyana Alekseevna Astrelina, Victoria Andreevna Nikitina, Yulia Borisovna Suchkova, Irina Vladimirovna Kobzeva, Vitaly Andreyevich Brunchukov, Anna Andreyevna Rastorgueva, Valentin Andreyevich Brumberg, Andrey Yuryevich Bushmanov, Alexander Sergeevich Samoilov</i> Influence of low doses of x-ray radiation on the life of human mesenchymal stem cells
A-114	Zhivodernikov Ivan Vladimirovich	<i>Ivan Vladimirovich Zhivodernikov, Andrei Yurievich Ratushny, Diana Konstantinovna Matveeva, Lyudmila Borisovna Buravkova</i> Genes expression of the extracellular matrix of msc in vitro when modeling effects of microgravity
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A-116	Stadnikov Alexander Abramovich	<i>Julia Vladimirovna Liskova, Alexander Abramovich Stadnikov, Anton Nikolaevich Novikov, Svetlana Petrovna Salikova</i> Cardiac Telocytes: Role in Myocardial Repair / Regeneration
A-117	Bobyleva Polina Ivanovna	<i>Polina Ivanovna Bobyleva</i> The effect of directed regulation of ROS on the immunomodulatory activity of multipotent mesenchymal stromal cells
A-118	Golikova Ekaterina Andreevna	<i>Ekaterina Andreevna Golikova, Irina Vyacheslavovna Andrianova, Lyudmila Borisovna Buravkova</i> Features of the interaction of hematopoietic precursors and mesenchymal stromal cells in modeling the effects of microgravity

A-119	Zubkova Ekaterina Sergeevna	<i>Ekaterina Sergeevna Zubkova, Yuri Sergeevich Stafeyev, Svetlana Sergeevna Michurina, Mikhail Yurievich Menshikov</i> The effect of polarizing factors on the expression profile and immunomodulating properties of adipose tissue mesenchymal stromal cells
A-120	Kozhukharova Irina Victorovna	<i>Irina Viktorovna Kozhukharova, Natalya Mikhailovna Minkevich, Larisa Leonidovna Alekseenko, Irina Sergeevna Smirnova, Valery Vsevoldovich Zenin, Nikolai Nikolayevich Nikolsky</i> The effect of exogenous and endogenous factors on VEGF expression in in vitro cultured human mesenchymal stem cells
A-121	Voinova Elizaveta Sergeevna	<i>Elizaveta Sergeevna Voinova, Petr Alekseevich Tyurin-Kuzmin</i> Change of the proliferative-differentiative potential of mesenchymic stromal cells as an indicator of aging at the cellular level
A-122	Kashapova Irina Sergeevna	<i>Irina Sergeevna Kashapova, Elena Sergeevna Schukina, Gleb Yurievich Kosovsky</i> Proliferation and differentiation potential of rabbit mesenchymal stem cells in the presence of FGF
A-123	Domnina Alice Pavlovna	<i>Alisa Pavlovna Domnina, Larisa Leonidovna Alekseenko, Irina Isaakovna Fridlyanskaya, Olga Genadiyevna Lyublinskaya, Irina Viktorovna Kozhukharova, Nikolai Nikolayevich Nikolsky</i> Mesenchymal stem cells cultured on serum-free media retain stem properties and exhibit enhanced therapeutic activity when organized into spheroids
A-124	Chechekhin Vadim Igorevich	<i>Vadim Igorevich Chechekhin, Anastasia Mikhailovna Ivanova, Petr Alekseevich Tyurin-Kuzmin, Veronika Yuryevna Sysoeva, Natalya Igorevna Kalinina</i> Violation of sensitivity to norepinephrine in immortalized mesenchymal stromal cells
A-125	Miroshnichenko Svetlana Mikhailovna	<i>Svetlana Mihaylovna Miroshnichenko, Anastasia Olegovna Solovyova, Ivan Fedorovich Usynin</i> ApoA-1 helps maintain the viability of mesenchymal stromal cells under adverse culturing conditions
A-126	Anastasia Solovieva	<i>Anastasia Solovyova, Alexandrova Svetlana</i> Comparative analysis of diameters of mesenchymic stem cells of rabbit's brain on different cultivation passages
A-127	Zhurenkov Kirill Eduardovich	<i>Kirill Eduardovich Zhurenkov, Olga Igorevna Alexandrova, Ilya Olegovich Gavriluyuk, Svetlana Alekseevna Aleksandrova, Natalya Mikhailovna Yartseva, Tatyana Vyacheslavovna Mashel, Yulia Igorevna Khorolskaya, Galina Alekseevna Pisugina, Daria Alexandrovna Perepletkhikova, Miralda Ivanovna Blinova</i> Stem cells of the lower lip mucosa in tissue engineering of the cornea
A-128	Pisugina Galina Alekseevna	<i>Galina Alekseevna Pisugina, Olga Igorevna Alexandrova, Julia Igorevna Khorolskaya, Kirill Eduardovich Zhurenkov, Daria Alexandrovna Perepletkhikova, Tatyana Vyacheslavovna Mashel, Miralda Ivanovna Blinova</i> In vitro morphofunctional characterization of rabbit limbal stem cells
A-129	Semenova Natalya Yuryevna	<i>Natalya Yuryevna Semenova, Viktor Ivanovich Rugal, Anna Vadimovna Chubar, Natella Iosifovna Erukashvili, Sergey Vasilievich Gritsaev, Ivan Ivanovich Kostroma, Anastasia Andreevna Zhernyakova, Stanislav Semenovich Bessmeltsov</i> Characterization of bone marrow mesenchymal stromal cells in patients with multiple myeloma
A-130	Novoseleckaya Ekaterina Sergeevna	<i>Ekaterina Sergeevna Novoseleckaya, Olga Alexandrovna Grigoryeva, Natalya Andreevna Basalova, Konstantin Yurevich Kulebyakin, Maria Alexandrovna Kulebyakina, Petr Petrovich Nimiritsky, Pavel Igorevich Makarevich, Vsevolod Arsenyevich Tkachuk, Anastasia Yuryevna Efimenko</i> In vitro modeling of the microenvironment of mesenchymal stem/stromal cells: the role of extracellular matrix
A-131	Ryabov Vladimir Mikhailovich	<i>Vladimir Mikhailovich Ryabov, Olga Vladimirovna Zhidkova, Boris Valentinovich Popov</i> A new population of mesenchymal stem cells from the heart of GFP mouse fetuses for heart regeneration modeling

A-132	Khalyavkin Alexander Viktorovich	<i>Alexander Viktorovich Khalyavkin</i> One of the possible mechanisms for the formation of asymmetric divisions of stem cells on the example of formation of vertical divisions of semi-stem basal cells of inter-follicular epidermis
A-133	Vetrovoy Oleg Vasilevich	<i>Oleg Vasilevich Vetrovoy, Victor Andreevich Stratilov, Ekaterina Iosifovna Tyulkova</i> Disorders of the glutamate system of the hippocampus of rat offspring caused by the mother's stress response to hypoxia are involved in the formation of age-associated cognitive deficit
A-134	Ivanova Anastasia Mikhailovna	<i>Anastasia Mikhailovna Ivanova, Vadim Igorevich Chechekhin, Pyotr Alekseevich Tyurin-Kuzmin, Natalya Igorevna Kalinina</i> Heterologic sensitization of alpha1A-adrenergic receptors by serotonin in mesenchymal stromal cells
A-135	Kochkina Ekaterina Nikolaevna	<i>Ekaterina Nikolaevna Kochkina, Polina Dmitrievna Kotova</i> Protein kinase G modulates the sensitivity of MSCs to a purinergic agonist
A-136	Vorontsova Maria Vladimirovna	<i>Maria Vladimirovna Vorontsova, Konstantin Yurevich Kulebyakin, Leyla Salikhovna Sozaeva, Pyotr Alekseevich Tyurin-Kuzmin, Nikita Sergeevich Voloshin, Anton Aleksandrovich Kartoshkin, Alexandra Aleksandrovna Koroleva, Dmitry Kuzmich Martynov</i> Features of parathyroid hormone signaling and its effect on the ability of osteogenic differentiation of mesenchymal stromal cells
A-137	Akhmetzyanova Elvira Ruslanovna	<i>Elvira Ruslanovna Akhmetzyanova, Margarita Nikolaevna Zhuravleva, Yana Olegovna Mukhamedshina</i> The study of behavior changes of microglia cells on models of spinal cord injury of varying severity
A-138	Shamadykova Dzhirgala Vladimirovna	<i>Dzhirgala Vladimirovna Shamadykova, Anastasia Alexandrovna Chulkova, Ekaterina Anatolievna Savchenko, Galina Valerievna Pavlova</i> Search for new isoforms of glial neurotrophic factor (GDNF) with neuronal induction properties
A-139	Markosyan Wage Arshaluysovich	<i>Vahe Arshaluysovich Markosyan, Mikhail Evgenievich Sokolov, Evgeny Sergeevich Kim, Dmitry Alexandrovich Trofimov, Ayrat Mansurovich Gibadullin, Grair Grairovich Kundakchyan, Andrei Aleksandrovich Izmailov, Maxim Sergeevich Kuznetsov, Ravil Rasimovich Garifullin, Artyom Anatolyevich Surikov, Regina Rinatovna Minnigaleeva</i> Comparative analysis of morphological and functional changes in the brain of rats after modeling ischemic stroke in various ways
A-140	Izmaylov Andrei Alexandrovich	<i>Andrey Alexandrovich Izmailov, Maxim Sergeevich Kuznetsov, Arthur Nikolaevich Lisyukov, Ilnara Albertovna Bikmullina, Konstantin Dmitrievich Volkov, Filip Olegovich Fadeev, Rustem Robertovich Islamov</i> Functional state of genes encoding synaptic proteins in the spinal cord under conditions of hypogravity modeling on Earth
A-141	Ali Sabina Gulzarovna	<i>Sabina Gulzarovna Ali, Galina Anatolyevna Bozhok</i> Influence of dmsO concentration in the cryoprotective medium on cell composition and valuability of cell culture obtained from spinal ganglia of neonatal piglings
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A-143	Rodina Alla Valeryevna	<i>Alla Valerievna Rodina, Marina Yuryevna Kopaeva, Anastasia Nikolaevna Romantsova, Valentina Georgievna Shuvatova, Elizaveta Yuryevna Moskaleva</i> Recovery of neurogenesis after the combined action of low-dose general $\gamma$ -radiation and $\gamma$ ,n-radiation of the head
A-144	Leonov Georgy Evgenyevich	<i>Georgy Evgenievich Leonov, Diana Arekovna Salikhova, Tatyana Borisovna Bukharova, Zoya Valentinovna Kornienko, Natalya Vadimovna Bulatenko, Oleg Vladimirovich Makhnach, Andrey Vitalievich Makarov, Timut Khaisamutdinovich Fathudinov, Sergey Lvovich Kiselev, Dmitry Vadimovich Goldstein</i> Comparative analysis of the neurotrophic and neuroprotective properties of neuronal, glial progenitors and multipotent mesenchymal stromal cells

A-145	Kologrivova Irina Vyacheslavovna	<i>Irina Vyacheslavovna Kologrivova, Tatyana Evgenievna Suslova, Vyacheslav Valerievich Ryabov, Marina Alexandrovna Shtatolkina, Oksana Alexandrovna Trubacheva</i> The dynamics of nuclear translocation of the transcription factor FoxP3 in CD4+ lymphocytes and the subpopulation composition of monocytes after myocardial infarction
A-146	Avdeev Alexander Andreevich	<i>Alexander Andreevich Avdeev, Elena Viktorovna Grigorieva, Sofya Viktorovna Pavlova, Sergey Petrovich Medvedev, Anastasia Alexandrovna Malakhova, Suren Minasovich Zakiyan</i> Development of a GFAP gene expression visualization system – a specific marker of astrocytes
A-147	Menshikov Mikhail Yurievich	<i>Mikhail Yurievich Menshikov, Ekaterina Sergeevna Zubkova, Yuri Sergeevich Stafeev, Svetlana Sergeevna Michurina</i> Effect of cell signaling, energetic metabolism and autophagia modulators on the expression profile of polarized macrophages
A-148	Skvortsova Elena Vyacheslavovna	<i>Elena Vyacheslavovna Skvortsova, Sergey Anatolyevich Sinenko, Valery Vsevolodovich Zenin, Alexey Nikolaevich Tomilin</i> Obtaining regulatory dendritic cells from induced pluripotent mouse stem cells for use in tissue transplant models
A-149	Streltsova Maria Alekseevna	<i>Maria Alekseevna Streltsova, Sofya Alekseevna Erokhina, Polina Andreevna Kobyzeva, Anna Aleksandrovna Boyko, Elena Ivanovna Kovalenko</i> Clones of NK cells with the CD57+ NKG2C+ phenotype have better viability compared to clones obtained from the CD57+ NKG2C– subpopulation
A-150	Korotkikh Anna Gennadievna	<i>Anna Gennadyevna Korotkikh, Sergey Vladimirovich Sazonov</i> Ultrastructural manifestations of reparative regeneration of myelin nerve fibers when using carbon nanotubes in conduit nerve
A-151	Antonov Stanislav Anatolevich	<i>Stanislav Anatolyevich Antonov, Ekaterina Vyacheslavovna Novosadova, Igor Anatolyevich Grivennikov</i> Extrasynaptic NMDA receptors regulate the maturation of human dopaminergic neurons
A-152	Molokotina Yulia Dmitrievna	<i>Julia Dmitrievna Molokotina, Yuri Sergeevich Stafeev, Maria Alexandrovna Boldyreva, Ekaterina Sergeevna Zubkova, Zoya Ivanovna Tsokolaeva, Ekaterina Vladimirovna Semina, Elena Viktorovna Parfenova</i> The combined effect of HGF and GDNF stimulates the growth of neurites, enhancing phosphorylation of ERK1/2
A-153	Moisenovich Anastasia Mikhailovna	<i>Anastasia Mikhailovna Moisenovich, Anastasia Yuryevna Arkhipova, Ivan Viktorovich Bessonov, Andrei Sergeevich Kolosov, Victor Vyacheslavovich Tatarsky, Konstantin Voldemarovich Shaitan, Mikhail Mikhailovich Moisenovich</i> Investigation of the effect of changes in the mechanical properties of the substrate on the neuronal differentiation of cells of the human neuroblastoma line SH-SY5Y
A-154	Erokhina Sophia Alekseevna	<i>Sofya Alekseevna Erokhina, Maria Alekseevna Streltsova, Julia Dmitrievna Teterina, Leonid Mikhailovich Kanevsky, Elena Ivanovna Kovalenko, Sergey Mikhailovich Deev, Alexander Mikhailovich Sapozhnikov</i> Extracellular form of HSP70 heat shock protein: possibilities of using exogenous HSP70 for combined NK-cell therapy
A-155	Vovchenko Maksim Alexandrovich	<i>Maxim Alexandrovich Vovchenko, Erdem Bairovich Dashinimaev, Kirill Konstantinovich Sukhinich</i> Managing the axons growth of human neurons obtained from induced pluripotent stem cells using electrical stimulation
A-156	Kovalenko Elena Ivanovna	<i>Maria Alekseevna Streltsova, Sofya Alekseevna Erokhina, Polina Andreevna Kobyzeva, Leonid Mikhailovich Kanevsky, Maria Vladimirovna Grechikhina, Elena Ivanovna Kovalenko</i> Phenotypic characteristics of clonal cultures obtained from a subpopulation of NK cells CD57+ NKG2C+
A-157	Posypanova Galina Aronovna	<i>Galina Aronovna Posypanova, Maria G. Ratushnyak, Julia Pavlovna Semochkina, Elizaveta Yuryevna Moskaleva</i> Comparison of the sensitivity of mouse neural stem/progenitor cells to gamma and neutron radiation

A-158	Zhuravleva Margarita Nikolaevna	<i>Margarita Nikolaevna Zhuravleva, Elvira Ruslanovna Akhmetzyanova, Alexander Alexandrovich Kostennikov, Yana Olegovna Mukhamedshina</i> Changes in the behavior of microglia cells in in vivo models of spinal cord injury
A-159	Lyadova Irina Vladimirovna	<i>Tatyana Anatolievna Nenasheva, Yana Viktorovna Serdyuk, Tatyana Pavlovna Gerasimova, Alexander Alexandrovich Nikolaev, Elena Viktorovna Grigoryeva, Irina Vladimirovna Lyadova</i> Macrophages derived from induced pluripotent stromal cells as a model for studying tissue resident macrophages
A-160	Mikhalchenkov Mark Vasilevich	<i>Mark Vasilievich Mikhalchenkov, Maria Sergeevna Rebenkova, Alexandra Enkheevna Gombozhapova, Marina Rinatovna Patysheva, Julia Viktorovna Rogovskaya, Vyacheslav Valerievich Ryabov</i> The functional activity of macrophages in vitro in patients with acute myocardial infarction
A-161	Sergeev Valery Georgievich	<i>Valery Georgievich Sergeev, Victor Mikhailovich Chuchkov, Tatyana Nikolaevna Sergeeva</i> Dose-dependent effect of neuroinflammation on the proliferative and migration activity of the neural stem cells of the subventricular zone of the rat brain
A-162	Dubovaya Tatyana Kleonikovna	<i>Tatyana Kleonikovna Dubovaya, Maria Vladislavovna Guseva, Andrei Alexandrovich Kamensky</i> Features of restoration processes in the brain of rats on the background of application of food cholin
A-163	Joseph Allen	<i>Joseph Allen, Nikolai Nikolaevich Didenko</i> Mechanical Dissociation or Enzymatic Digestion for the Isolation of Neural Stem Cells for Therapeutic Use
A-164	Zlatskaya Alyona Vasilevna	<i>Alyona Vasilievna Zlatskaya, Natalya Mikhailovna Todosenko, Angela Evgenievna Rodnichenko, Inna Mikhailovna Gordienko, Olga Sergeevna Gubar, Dmitry Alexandrovich Zubov, Svetlana Nikolaevna Novikova, Larisa Sergeevna Litvinova, Roman Gennadievich Vasiliev</i> Development of an effective xeno-free system for the expansion of endometrial multipotent mesenchymal stem cells



**POSTER SESSION**  
**NOVEMBER 22, 2019, FRIDAY**

Stand number	Presenter Name	Title
B-1	Buinov Alexander Stanislavovich	<i>Alexander Stanislavovich Buinov, Bato Chingisovich Kholkhoev, Ksenia Nikolaevna Bardakova, Elvira Razitovna Gafarova, Petr Sergeevich Timashev, Vitaly Fedorovich Burdukovsky</i> Electrically conductive biocompatible biocomposites based on chitosan and graphene
B-2	Abdulatipova Zaire Magomedovna	<i>Zaira Magomedovna Abdulatipova, Irina Evgenievna Trubitsyna</i> The effect of allogeneic mesenchymal stem cells on the healing of an operative wound in rats
B-3	Lykov Alexander Petrovich	<i>Alexander Petrovich Lykov, Maria Alexandrovna Surovtseva, Olga Vladimirovna Poveschenko, Natalya Anatolyevna Bondarenko, Irina Innokentyevna Kim, Evgenia Vladimirovna Yankayte</i> Erythropoietin as a stimulator of the therapeutic potential of mesenchymal stem cells
B-4	Stepanova Olga Vladislavovna	<i>Olga Vladislavovna Stepanova, Anastasia Denisovna Voronova, Andrey Viktorovich Chadin, Marat Petrovich Valikhov, Alevtina Sergeevna Semkina, Igor Vladimirovich Reshetov, Vladimir Pavlovich Chekhonin</i> Efficiency of transplantation of parietal cells of the olfactory lining of humans and rats in chronic spinal cord injuries
B-5	Voronova Anastasia Denisovna	<i>Olga Vladislavovna Stepanova, Marat Petrovich Valikhov, Andrey Viktorovich Chadin, Ekaterina Konstantinovna Karsuntseva, Alevtina Sergeevna Semkina, Igor Vladimirovich Reshetov, Vladimir Pavlovich Chekhonin</i> Generation and using a combined drug with olfactory lining cells for spinal cord injuries
B-6	Ryabov Sergey Ivanovich	<i>Sergey Ivanovich Ryabov, Vladimir Alexandrovich Smirnov, Marina Alexandrovna Zvyagintseva, Mikhail Yakovlevich Yadgarov, Sergei Alexandrovich Bazanovich, Vladimir Nikolaevich Smirnov</i> Application of cryconserved human core blood cells in modulation of spinal injury in rats
B-7	Vorobeva Iva Glebovna	<i>Iva Glebovna Vorobyova, Tatyana Borisovna Karyagina</i> Checking the phenotypic stability of genetically modified cells selected by chimeric sorting
B-8	Mikhailov Vyacheslav Mikhailovich	<i>Vyacheslav Mikhailovich Mikhailov, Anastasia Vladimirovna Sokolova, Elena Vasilievna Kaminskaya, Nadezhda Stepanovna Skripkina, Natalya Aleksandrovna Timonina, Violetta Vasilievna Kravtsova, Igor Ilyich Krivoy</i> Nemioloablative bone marrow cell translation as a method for cellular therapy of monogenous diseases
B-9	Mikhailovsky Nikolay Vasilevich	<i>Nikolai Vasilievich Mikhailovsky, Elena Vyacheslavovna Abakushina, Olga Nikolaevna Spichenkova, Mikhail Alexandrovich Sigov, German Anatolyevich Davydov</i> Assessment of migration of activated lymphocytes in oncologic patients at immunotherapy
B-10	Gilevich Irina Valerievna	<i>Irina Valerievna Gilevich, Alexander Sergeevich Sotnichenko, Andrei Vladimirovich Polyakov, Sergey Borisovich Bogdanov, Karina Igorevna Melkonyan, Larisa Afanasevna Medvedeva, Vladimir Alekseevich Porkhanov</i> Morphological analysis of the results of an integrated approach to the treatment of burn wounds using dermal fibroblasts
B-11	Karpyuk Vladimir Borisovich	<i>Irina Valerievna Gilevich, Vladimir Borisovich Karpyuk, Marina Dmitrievna Perova, Vladimir Alekseevich Porkhanov</i> Advantages of cell technology in the surgical treatment of chronic developed periodontitis
B-12	Golovneva Elena Stanislavovna	<i>Elena Stanislavovna Golovneva, Jean Alexandrovich Revel-Muroz, Maxim Valerevich Sokol, Polina Andreevna Fortygina, Alexander Alexandrovich Chesnokov, Tatyana Gennadevna Kravchenko</i> Influence of laser irradiation of the red bone marrow on the course of alloxan diabetes

B-13	Kosmacheva Svetlana Mikhailovna	<i>Svetlana Mikhailovna Kosmacheva, Evgeny Vladimirovich Kuvyrkov, Mikhail Petrovich Potapnev</i> Osteogenous induction of human mesenchymal stem cells on nanostructured coatings of dioxide titanium implants
B-14	Ustyuzhanin Dmitry Vladimirovich	<i>Yana Vyacheslavovna Morozova, Dmitry Vladimirovich Ustyuzhanin, Merab Archilovich Sharia, Anatoly Boleslavovich Smulevich, Vladimir Nikolaevich Smirnov</i> The use of umbilical cord blood nucleating cells concentrate and the evaluation of brain activation using fMRI in patients with a simple form of schizophrenia with symptoms of an asthenic defect in remission
B-15	Shapovalova Elena Yuryevna	<i>Elena Yuryevna Shapovalova, Tatyana Anatolyevna Boyko, Yuri Gennadievich Baranovsky, Nikolai Petrovich Barsukov, Marina Nikolaevna Morozova, Alexey Gennadievich Baranovsky</i> A new approach to the prevention of unaesthetic scars using an allogeneic fibroblast culture
B-16	Brunchukov Vitaliy Andreevich	<i>Vitaly Andreevich Brunchukov, Tatyana Alekseevna Astrelina, Victoria Andreyevna Nikitina, Irina Vladimirovna Kobzeva, Julia Borisovna Suchkova, Daria Yurievna Usupzhanova, Anna Andreevna Rastorguyeva, Olga Aleksandrovna Maksimova, Valery Evgenievich Kryuchikhin, Sergey Vladimirovich Lishchuk, Elena Alekseevna Dubova, Konstantin Anatolyevich Pavlov, Valentin Andreyevich Brumberg, Andrey Yurievich Bushmanov, Alexander Sergeevich Samoilo</i> The use of placental mesenchymal stem cells for local radiation injuries of the skin
B-17	Sukhinich Kirill Konstantinovich	<i>Kirill Konstantinovich Sukhinich, Erdem Bairovich Dashinimaev, Ekaterina Andreevna Vorotelyak, Maria Anatolyevna Alexandrova</i> Neocortex cells placed in gelatin hydrogel conduit stimulate the recovery of the peripheral nerve
B-18	Bayzyanova Yana Maratovna	<i>Yana Maratovna Bayzyanova, Ruslan Vyacheslavovich Nikolaev, Ekaterina Nikolaevna Balashova, Elena Yurievna Osipova</i> Influence of mesenchymal stem cells from bone marrow and umbilical cord on proliferation of cd4+ lymphocyte of peripheral blood
B-19	Popov Igor Yurievich	<i>Igor Yuryevich Popov, Igor Alexandrovich Atmanskyy, Ivan Anatolyevich Gromov, Ildar Narkisovich Sharipov, Anna Alexandrovna Bykova</i> Experience in the treatment of osteoarthritis of large joints by intraarticular management of emulsified autologous adipose tissue
B-20	Khramtsova Natalya Igorevna	<i>Natalya Igorevna Khramtsova, Sergey Alexandrovich Plaksin, Artyom Yurievich Sotskov</i> Morphometry of adipocytes taken from various anatomical zones
B-21	Primakova Evgenia Alekseevna	<i>Evgenia Alekseevna Primakova, Alla A. Symanovich, Ekaterina Gennadyevna Petrovskaya, Ekaterina Alexandrovna Nazarova, Natalya Ivanovna Dedyulya, Evgeniya Sergeevna Buzuk, Victoria Vladimirovna Smolnikova, Victoria Yuryevna Grinevich, Natalya Feodosyevna Milanovich, Svetlana Ivanovna Krivenko</i> Analysis of the influence of allogeneic mesenchymal stem cells on the subpopulation composition of lymphocytes of recipients of allogeneic hematopoietic stem cells during their joint cultivation in vitro
B-22	Serbina Olesya Olegovna	<i>Olesya Olegovna Serbina, Ekaterina Vladimirovna Kiseleva, Egor Sergeevich Vasecki</i> MSCs contribute to profibrotic changes in muscle tissue in LDL
B-23	Svist Polina Gennadievna	<i>Ekaterina Vadimovna Orlova, Lyudmila Mikhailovna Smirnova, Lyaila Nailevna Kayumova, Polina Gennadievna Svist</i> The experience of using autologous mesenchymal stem cells in the treatment of ulcers
B-24	Schuman Evgeniy Alexandrovich	<i>Evgeniy Aleksandrovich Schuman, Artem Vladimirovich Korotkov, Oleg Germanovich Makeev</i> Injection of genetically-modified MMSC from adipose tissue to myocardium to correct pathogenetic mechanisms of coronary heart disease
B-25	Tyumina Olga Vladimirovna	<i>Olga Vladimirovna Tyumina, Stanislav Evgenievich Volchkov, Pavel Anatolyevich Ovchinnikov</i> The use of hematopoietic cord blood stem cells

B-26	Volchkov Stanislav Evgenyevich	<i>Stanislav Evgenievich Volchkov, Olga Vladimirovna Tyumina, Pavel Anatolyevich Ovchinnikov, Larisa Mikhailovna Trusova, Tatyana Alexandrovna Romanova, Olga Olegovna Galakhova</i> Experience with hematopoietic cord blood cells in children with autism spectrum disorder
B-27	Simonyan Ogannes Artavazdovich	<i>Valery Vartanovich Bagdasarov, Elena Anatolyevna Bagdasarova, Ogannes Artavazdovich Simonyan, Alexei Valerevich Lundup, Mikhail Evgenievich Krasheninnikov, Oksana Andreevna Golovina</i> A clinical case of the use of allogeneic mesenchymal stem cells in a patient with septic shock
B-28	Alexandrova Olga Igorevna	<i>Olga Igorevna Alexandrova, Kirill Eduardovich Zhurenkov, Galina Alekseevna Pisugina, Yulia Igorevna Khorolskaya, Tatyana Vyacheslavovna Mashel, Daria Alexandrovna Pereplechikova, Ilya Olegovich Gavrilyuk, Anatoly Sergeyevich Dubovikov, Anna Vladimirovna Bezushko, Igor Nikolaevich Okolov, Miralda Ivanovna Blinova</i> Key factors for the effectiveness of cell transplantation in the repair of corneal epithelium
B-29	Sotskov Artyom Yurievich	<i>Natalya Igorevna Khramtsova, Artyom Yurievich Sotskov, Sergei Alexandrovich Plaksin, Natalia Ivanovna Gulyaeva</i> Characterization of cell damage during filtration of lipoaspirate
B-30	Maksimova Seraphima Yuryevna	<i>Serafima Yurievna Maksimova, Anushavan Oganosovich Papoyan, Ksenia Vladimirovna Danilko, Timur Ildusovich Bikkuzin, Amir Rafisovich Farganov, Valentin Nikolaevich Pavlov</i> The use of the stromal-vascular fraction obtained from autologous adipose tissue for the treatment of stress urinary incontinence in men
B-31	Smyshlyaev Ivan Alexandrovich	<i>Ivan Alexandrovich Smyshlyaev, Sergey Ilsvverovich Gilfanov, Ilya Igorevich Eremin, Andrey Alekssevich Pulin, Ilmira Renatovna Gilmutdinova</i> Possibilities of treating degenerative-dystrophic diseases of the knee joint with the help of the stromal-vascular fraction from adipose tissue
B-32	Poveschenko Olga Vladimirovna	<i>Olga Vladimirovna Poveschenko, Maria Alexandrovna Surovtseva, Alexander Petrovich Lykov, Irina Innokentyevna Kim, Natalya Anatolyevna Bondarenko, Evgeniya Viktorovna Yankayte, Alexander Mikhailovich Chernyavsky, Alexey Vyacheslavovich Fomichev</i> Erythropoetin effect on functional activity of bone marrow cells of patients with ihd which has transmiscardial laser revascularization combined with implantation of autologous bone marrow cells preconditioned by erythropoetin
B-33	Temnov Andrey Alexandrovich	<i>Andrey Alexandrovich Temnov, Stanislav Anatolyevich Biryukov, Gleb Igorevich Filkov, Angelina Vladimirovna Potapova, Alexander Valerievich Lisin, Elena Vladimirovna Gorina, Valery Vladimirovich Boyarintsev, Alexander Viktorovich Trofimenko</i> Development of a technology for creating a biomedical cell product for treatment of frostbrown, burns and wound in arctic conditions
B-34	Viktorova Ekaterina Vladimirovna	<i>Ekaterina Vladimirovna Viktorova, Irina Petrovna Savchenkova, Svetlana</i> Treatment of osteoarthritis of dogs with finely fragmented adipose tissue.
B-35	Askarov Manarbek Bapovich	<i>Abay Kabataevich Baigenzhin, Manarbek Bapovich Askarov, Natalia Alekseevna Krivoruchko, Aigerim Myrzakhanovna Imanberdieva, Elmira Berikovna Kudaibergenova, Aigerim Khairullaevna Zhakupova</i> The effectiveness of autologous bone marrow stem cell transplantation in systemic scleroderma
B-36	Zhakupova Aigerim Khayrullaevna	<i>Manarbek Bapovich Askarov, Abay Kabataevich Baigenzhin, Temirlan Sibirievich Karibekov, Andrei Alekseevich Logvinenko, Galia Masugutovna Shaimardanova, Alia Zeynullaevna Ospanova, Aigerim Khairullaevna Zhakupova</i> Bone marrow mesenchymal stem cells eliminate autoimmune reactions and accelerate the regeneration of a damaged situation in a non-specific ulcerative colitis
B-37	Zhakupova Aigerim Khayrullaevna	<i>Abay Kabataevich Baigenzhin, Manarbek Bapovich Askarov, Olga Vladimirovna Ulyanova, Aigerim Khairullaevna Zhakupova, Dana Talapovna Saypieva, Dina Aleksandrovna Serebrennikova, Galiya Masugutovna Shaimardanova</i> Bone marrow mesenchymal stem cell transplantation in type II diabetes mellitus

B-38	Lyndup Alexey Valerevich	<i>Nadezhda Viktorovna Maksimova, Mikhail Evgenievich Krasheninnikov, Igor Anatolyevich Pomytkin, Ilya Dmitrievich Klabukov, Anna Valentinovna Mikhenko, Galina Afanasevna Melnichenko, Alexey Valerevich Lyndup</i> Long-term results of the use of small doses of autologous mesenchymal stromal cells in the treatment of diabetic ulcers
B-39	Stadnikov Alexander Alexandrovich	<i>Alexander Alexandrovich Stadnikov, Gennady Mikhailovich Kavalersky, Sergey Vasilievich Arkhipov, Maxim Anatolyevich Makarov</i> New methods of chondroplasty of the knee using the regenerative potential of mesenchymal stem cells
B-40	Makarov Maksim Sergeevich	<i>Maxim Sergeevich Makarov, Maya Viktorovna Storozheva, Natalya Valerievna Borovkova, Ivan Nikolaevich Ponomarev, Julius Vadimovich Andreev</i> The effect of using wound cover saturated with platelets in the treatment of deep wounds in the experiment
B-41	Ponomareva Julia Vyacheslavovna	<i>Julia Vyacheslavovna Ponomareva, Natalya Nikolaevna Sarbaeva, Marina Nikolaevna Milyakova</i> Features of tissue reaction during implantation of xenogenic highly purified acellular dermal matrix
B-42	Lykov Alexander Petrovich	<i>Alexander Petrovich Lykov, Maria Alexandrovna Surovtseva, Olga Vladimirovna Poveschenko, Natalya Anatolyevna Bondarenko, Irina Innokentyevna Kim, Olga Mikhailovna Stanishevskaya, Dmitry Valeryevich Chernykh, Natalya Sergeevna Arbeneva, Vladimir Ivanovich Bratko, Alexander Nikolaevich Trunov, Valery Vyacheslavovich Chernykh</i> Platelet lysate in the treatment of age-related macular degeneration
B-43	Makarov Maksim Sergeevich	<i>Maxim Sergeevich Makarov, Maya Viktorovna Storozheva, Natalya Valerievna Borovkova, Ivan Nikolaevich Ponomarev, Julius Vadimovich Andreev</i> The content of reparative factors in poor and platelet-rich plasma
B-44	Makarov Maksim Sergeevich	<i>Maxim Sergeevich Makarov, Maya Viktorovna Storozheva, Natalya Valerievna Borovkova, Ivan Nikolaevich Ponomarev, Julius Vadimovich Andreev</i> Silver Nanoparticles Reduce Secretion of Growth Factors in Adhesive Platelets
B-45	Mai Roni Bahaeddin	<i>Roni Bahaeddin Mai, Egor Olegovich Osidak, Ekaterina Sergeevna Mishina, Vladimir Evgenievich Popov, Sergey Petrovich Domogatsky</i> The use of a collagen membrane for plastics of the dura mater (experimental study)
B-46	Yankayte Evgenia Victorovna	<i>Evgenia Viktorovna Yankayte, Maria Alexandrovna Surovtseva, Olga Vladimirovna Poveschenko, Alexander Petrovich Lykov, Irina Innokentyevna Kim, Natalya Anatolyevna Bondarenko, Irina Yuryevna Zhuravleva, Alexander Vladimirovich Bogachev-Prokofiev</i> Assessment of cytotoxicity of preimplantation treatment of bioprostheses with di- and pentaepoxides
B-47	Baranova Natalya Vladimirovna	<i>Natalya Vladimirovna Baranova, Lyudmila Anfilofevna Kirsanova, Anna Sergeevna Ponomareva, Evgeny Abramovich German, Victor Ivanovich Savastyanov</i> Comparative analysis of the effect of biopolymer hydrogel and tissue-specific matrices on the functional ability of isolated islets of Langerhans
B-48	Turchin Victor Vasilevich	<i>Victor Vasilievich Turchin, Maxim Vitalievich Solopov, Dmitry Vasilievich Zhikharev, Andrei Gennadievich Popandopulo, Valery Viktorovich Burkhovetsky, Valentina Aleksandrovna Glazunova, Emil Yakovlevich Fistal, Mikhail Sergeevich Kondrus, Andrei Leonidovich Boryak</i> Adhesion and viability of human fetal fibroblasts cultured on a 3D printed polycaprolactone matrix
B-49	Chebotaryov Sergey Valerevich	<i>Sergey Valerievich Chebotaryov, Vladimir Vasilyevich Khominets, Lidia Ivanovna Kalyuzhnaya, Alexey Sergeevich Grankin, Artem Vladimirovich Barabanov</i> Using a hydrogel from human umbilical cord biomaterial to repair articular cartilage damage
B-50	Chernonosova Vera Sergeevna	<i>Vera Sergeevna Chernonosova, Alexander Alexandrovich Gostev, Ivan Sergeevich Murashev, Andrei Anatolyevich Karpenko, Pavel Petrovich Laktionov,</i> Electrospinning materials for blood vessel engineering based on polyurethanes

B-51	Laktionov Pavel Petrovich	<i>Konstantin Anatolyevich Kuznetsov, Vera Sergeevna Chernonosova, Boris Pavlovich Chelobanov, Andrei Anatolyevich Karpenko, Pavel Petrovich Laktionov</i> Drug-filled coating for balloon expandable vascular stents
B-52	Aleinik Diana Yakovlevna	<i>Diana Yakovlevna Aleinik, Marfa Nikolaevna Egorikhina, Irina Nikolaevna Charykova, Julia Pavlovna Rubtsova, Larisa Nikolaevna Sosnina, Andrey Alexandrovich Struchkov, Petr Vladimirovich Peretyagin, Anna Gennadyevna Solovyova, Natalya Yurievna Orlinskaya</i> BMCP for the replacement of skin defects: characteristics and preclinical studies
B-53	Oleg Gradov	<i>Oleg Gradov</i> Multi-angle laser and electron-beam porosimetry of scaffolds, decellularized matrices and tissue-like models, including ESEM and CLEM implementations
B-54	Pidchenko Nikita Evgenyevich	<i>Alexey Vladimirovich Sachkov, Natalya Valerievna Borovkova, Nikita Evgenievich Pidchenko, Alexander Sergeevich Mironov, Tamara Georgievna Spiridonova, Elena Alexandrovna Zhirkova, Kirill Vsevolodovich Svetlov, Mikhail Anatolyevich Migunov, Alexander Olegovich Medvedev</i> Application of bandages based on lyophilized human collagen i type for treatment of donor wounds in combustiology
B-55	Arguchinskaya Nadezhda Valeryevna	<i>Nadezhda Valeryevna Arguchinskaya, Evgeny Evgenievich Beketov, Egor Olegovich Osidak, Felix Evgenievich Severyukov, Pyotr Viktorovich Shegay, Andrei Dmitrievich Kaprin</i> Creating a thyroid cartilage scaffold using 3D bioprinting
B-56	Sotnichenko Alexander Sergeevich	<i>Alexander Sergeevich Sotnichenko, Irina Valeryevna Gilevich, Karina Igorevna Melkonyan, Yana Andreevna Yutskevich, Anton Vladimirovich Karakulev, Sergey Borisovich Bogdanov, Ilya Mikhailovich Bykov, Vladimir Alekseevich Porkhanov, Andrei Nikolaevich Redko, Sergey Nikolaevich Alekseenko</i> Development of a new method for obtaining dermal extracellular matrix
B-57	Lykov Alexander Petrovich	<i>Alexander Petrovich Lykov, Olga Vladimirovna Poveschenko, Maria Aleksandrovna Surovtseva, Natalya Anatolyevna Bondarenko, Irina Innokentyevna Kim,</i> The effect of polyethyleneterephthalate and polytetrafluoroethylene on the functional properties of endothelial and mesenchymal cells
B-58	Gilmudtinova Ilmira Rinatovna	<i>Ilmira Rinatovna Gilmudtinova, Regina Dimyanovna Mustafina, Peter Serafimovich Eremin</i> The study of the biological properties of wound coating based on extracellular matrix components
B-59	Gradov Oleg Valerevich	<i>Vladimir Nikolaevich Gorshenev, Oleg Valerievich Gradov, Margarita Alekseevna Gradova</i> Differential orientation assessment of structural biomimetic properties of porous tissue-engineering structures using real-time correlation and spectral analysis systems and the mathematical apparatus of morphism theory / category theory
B-60	Subbot Anastasia Mikhailovna	<i>Anastasia Mikhailovna Subbot, Natalya Vladimirovna Fisenko</i> The study of biocompatibility of limb cells of the cornea of the human with matrix based on collagen used in anti-glaucoma surgery
B-61	Bagrov Dmitry Vladimirovich	<i>Dmitry Vladimirovich Bagrov, Elizaveta Robertovna Pavlova, Igor Igorevich Nikishin, Anastasia Ivanovna Sokolova, Alexandra Sergeevna Bogdanova, Dmitry Vladimirovich Klinov</i> Electroformed mixtures of polylactide and blood proteins – from the study of component compatibility to the controlled structure of biomaterial
B-62	Mikheeva Polina Victorovna	<i>Polina Viktorovna Mikheeva, Anastasia Yuryevna Teterina, Igor Valeryevich Smirnov, Alexander Yuryevich Fedotov, Vladimir Sergeyevich Komlev</i> Method of biomimetic deposition from physiological solutions on octacalcium phosphate granules for incorporation of biological factors
B-63	Matveeva Diana Konstantinovna	<i>Diana Konstantinovna Matveeva, Elena Romualdovna Andreeva</i> Optimization of the protocol for obtaining the decellularized extracellular matrix of mesenchymal stromal cells from human adipose tissue

B-64	Tihobrazova Olga Pavlovna	<i>Olga Pavlovna Tihobrazova, Maria Sergeevna Muraveva, Evgeny Aleksandrovich Klyuyev, Olga Sergeevna Baskina, Irina Vasilievna Mukhina,</i> The use of 3D biodegradable scaffold based on high molecular weight hyaluronic acid in reconstructive therapy of severe head injury
B-65	Afonin Igor Sergeevich	<i>Igor Sergeevich Afonin</i> Development of modern osteoplastic material for regenerative surgery of the bone skeleton of the jaw
B-66	Shevchenko Alexander Igorovich	<i>Alla Mikhailovna Zaydman, Alexander Igorevich Shevchenko, Elena Leonidovna Strokova, Arkady Fedorovich Gusev, Irina Anatolyevna Kirilova, Vladimir Mikhailovich Subbotin</i> Correction of support and metabolic function of bone tissue defect by osteotransplant
B-67	Antonova Larisa Valeryevna	<i>Elena Anatolyevna Velikanova, Vera Gennadyevna Matveeva, Evgenia Olegovna Krivkina, Victoria Vladimirovna Sevostyanova, Tatyana Vladimirovna Glushkova, Maryam Yurisoovna Khanova, Larisa Valerevna Antonova</i> Experience of application of endothelial cells of different origin for endotelization of tissue-engineered vascular prosthesis in in vitro
B-68	Antonova Olga Yuryevna	<i>Olga Yuryevna Antonova, Olga Yuryevna Kochetkova, Andrey Yuryevich Mikheev</i> Nanostructured scaffolds for targeted growth of neuronal cells
B-69	Faysullin Alexey Leonidovich	<i>Aleksei Leonidovich Fayzullin, Semen Nikolaevich Churbanov, Alina Yuryevna Kapitannikova, Mark Valeryevich Tokarev, Daniil Leonidovich Mudryak, Yana Igorevna Khristidis, Anna Evgenievna Guller, Alexander Vitalievich Kurkov, Alexandra Valeryevna Butenko, Petr Sergeevich Timashev, Anatoly Borisovich Shechter</i> Local delivery of pirfenidone to control peri-implant fibrosis: an in vivo experiment
B-70	Shekhter Anatoly Borisovich	<i>Anatoly Borisovich Shekhter, Vladimir Ivanovich Telpukhov, Dmitry Sergeevich Suslin, Natalia Nikolaevna Vorobyova, Yuri Viktorovich Gerasimov, Alla Germanovna Grosheva, Semen Nikolaevich Churbanov, Alexei Leonidovich Fayzullin, Alexandra Valerievna Butenko, Petr Sergeevich Timashev, Ruben Karpovich Chaylakhyan</i> Histotypic tendon tissue regeneration after tissue engineering
B-71	Boris Kim	<i>Maria Sergeevna Rebenkova, Julia Viktorovna Rogovskaya, Alexandra Eneevna Gombozhapova, Boris Kim, Vyacheslav Valerievich Ryabov,</i> Macrophage infiltration in the brain and myocardium in patients with type I myocardial infarction
B-72	Kazantsev Ilya Borisovich	<i>Ilya Borisovich Kazantsev, Alexander Ivanovich Tsukanov, Vladimir Vladimirovich Ivanov, Olga Alexandrovna Kaydash, Anna Sergeevna Zhevnyak</i> Application of stromal-vascular cell fraction in prefabrication of performant flaps
B-73	Fedotov Alexander Yurievich	<i>Alexander Yuryevich Fedotov, Artem Aleksandrovich Kotyakov, Igor Valerievich Smirnov, Oleg Vitalievich Baranov, Sergey Mironovich Barinov, Vladimir Sergeevich Komlev</i> Bone Implant Phosphate Octacal Coatings
B-74	Egorov Alexey Alexandrovich	<i>Alexey Alexandrovich Egorov, Alexander Yuryevich Fedotov, Vladimir Sergeevich Komlev</i> Modification of brushitite cements with lactic and amberic acid
B-75	Sapunova Natalya Borisovna	<i>Natalya Borisovna Sapunova, Alena Olegovna Bogatyreva, Nadezhda Viktorovna Revina, Elena Vladimirovna Liyaskina, Victor Vasilievich Revin</i> Bacterial cellulose-based biomaterials for regenerative medicine
B-76	Zobkov Yuri Valerevich	<i>Yuri Valerievich Zobkov, Anton Vladimirovich Mironov, Alexander Yuryevich Fedotov, Vladimir Karpovich Popov, Igor Valerevich Smirnov, Ilya Yadigerovich Bozo, Roman Vadimovich Deev, Sergey Mironovich Barinov, Vladimir Sergeevich Komlev</i> Development of biocompatible composite materials adapted to the manufacturing technology of personalized biomedical products
B-77	Minaev Nikita Vladimirovich	<i>Nikita Vladimirovich Minaev</i> The use of laser technology to form scaffolds and bioprinting.

B-78	Didenko Nikolay Nikolaevich	<i>Alexander Alexandrovich Dolgalev, Dmitry Viktorovich Bobryshev, Nikolai Nikolaevich Didenko, Victor Ivanovich Zelensky</i> The influence of the method of surface treatment of implant materials on the level of ATP MSC of human tooth pulp
B-79	Balyasin Maksim Vitalievich	<i>Maxim Vitalievich Balyasin, Denis Stanislavovich Baranovsky, Ilya Dmitrievich Klabukov, Anna Gasymovna Demchenko, Alexei Leonidovich Fayzullin, Olga Andreyevna Krasilnikova, Mikhail Evgenievich Krashennnikov, Alexey Valerevich Lundup, Vladimir Dmitrievich Parshin</i> Orthotopic implantation of a tissue-engineering construct based on a devitalized matrix to repair a damaged trachea: in vivo study
B-80	Trifanova Ekaterina Maksimovna	<i>Ekaterina Maksimovna Trifanova, Roman Alexandrovich Akasov, Alla Nikolaevna Generalova, Alexandra Olegovna Marianats, Alexander Georgievich Savelyev, Anavastia Vladimirovna Sochilina, Evgeny Valerievich Khaidukov, Vladimir Karpovich Popov</i> Electrospinning and structural stabilization of collagen matrices for tissue engineering structures
B-81	Popyrina Tatyana Nikolaevna	<i>Tatyana Nikolaevna Popyrina, Lyubov Andreevna Kilyashova, Tatyana Vladimirovna Chernenok, Christian Grandfils, Tatyana Sergeevna Demina,</i> Regulation of the structure and morphology of biodegradable microparticles for regenerative medicine
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B-83	Minaichev Vladislav Valentinovich	<i>Vladislav Valentinovich Minaichev, Polina Olegovna Teplova, Ksenia Andreevna Menshikh, Irina Sergeevna Fadeeva, Alyona Igorevna Zvyagina, Alina Sergeevna Odintsova, Vladimir Semenovich Akatov</i> Increased osteoinductive properties of nanoscale hydroxyapatite in combination with osteoconductive collagen matrix
B-84	Shekhter Anatoly Borisovich	<i>Alexander Vitalievich Kurkov, Anna Evgenievna Guller, Leonid Prokofievich Istranov, Elena Viktorovna Istranova, Semen Nikolaevich Churbanov, Petr Sergeevich Timashev, Denis Viktorovich Butnaru, Anatoly Borisovich Shekhter</i> Structural and mechanical features, biocompatibility, biodegradation and tissue reaction to the implantation of collagen scaffolds for tissue engineering
B-85	Anna Filimonova	<i>Anna Filimonova, Ekstratova Evstratova, Peter Shegay, Julia Eliseeva</i> Problems and prospects for creating materials for 3d bio printing
B-86	Nikolaeva Nadezhda Anatolievna	<i>Nadezhda Anatolievna Nikolaeva, Vladimir Viktorovich Rozanov, Igor Vasilievich Matveychuk, Alexander Petrovich Chernyaev, Liya Nikitichna Savvinova</i> Opportunities and prospects for improving the combined bioimplant sterilization techniques
B-87	Anastasia Solovieva	<i>Anastasia Solovieva, Svetlana Mikhailovna Miroshnichenko, Anton Mikhailovich Manakhov</i> Modification of polycaprolactone nanofibers for a wide range of regenerative medicine problems
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B-91	Zagoskin Yuri Dmitrievich	<i>Yuri Dmitrievich Zagoskin, Timofey Evgenievich Grigoryev, Nikita Mikhailovich Kuznetsov, Valeria Sergeevna Kuznetsova, Andrey Vyacheslavovich Vasiliev, Tatyana Borisovna Bukharova, Dmitry Vadimovich Goldstein, Sergey Nikolaevich Chvalun,</i> Biodegradable composite materials for maxillofacial surgery based on polymer hydrogels and porous polylactide microparticles
B-92	Khramtsova Elena Alexandrovna	<i>Elena Aleksandrovna Khramtsova, Egor Stepanovich Morokov, Timofey Evgenievich Grigoriev, Vadim Moiseevich Levin</i> High-resolution non-invasive ultrasound imaging methods for assessing the quality of the resulting matrices and analysis of their biodegradation processes
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B-95	Grigoryev Timofey Evgenyevich	<i>Timofey Evgenievich Grigoriev, Yuri Dmitrievich Zagoskin, Ksenia Igorevna Lukanina, Timur Kazbekovich Tokaev, Sergey Vladimirovich K</i> Physico-mechanical properties and biocompatibility of porous polylactide-based materials to replace large volumes of soft tissues
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B-98	Fadeeva Inna Vilorovna	<i>Inna Vilorovna Fadeeva, Tatyana Viktorovna Safronova, Alexander Sergeevich Fomin, Olga Stanislavovna Antonova, Irina Ivanovna Selezneva</i> Synthetic Powder Calcium Phosphate Ceramics for Biomedical Applications
B-99	Safronova Tatyana Victorovna	<i>Tatyana Viktorovna Safronova, Otabek Ulugbekovich Toshev, Tatyana Borisovna Shatalova, Yulia Sergeevna Lukina, Konstantin Viktorovich Malyutin, Yaroslav Yurevich Filippov, Vladimir Valentinovich Zaitsev, Irina Ivanovna Selezneva, Valentina Konstantinovna Krutko, Olga Nikolaevna Musskaya</i> Biocompatible calcium phosphate ceramic materials obtained by firing cement stone
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B-101	Dudun Andrey Andreevich	<i>Andrey Andreevich Dudun, Elizaveta Aleksandrovna Akulina, Tatyana Konstantinovna Makhina, Anton Pavlovich Bonartsev, Vera Vladimirovna Voinova, Garina Aleksandrovna Bonartseva</i> Changes in the bacterial community in the intestinal microbiota with an implantable biopolymer construct based on poly-3-hydroxybutyrate and alginate
B-102	Monakova Anastasia Dmitrievna	<i>Anastasia Dmitrievna Monakova, Anastasia Evgenievna Bodyagina, Aida Fazilevna Mulyar, Alena Igorevna Zvyagina</i> Development of elastin barrier membranes for targeted tissue regeneration. In vitro biocompatibility assessment



B-103	Shevyrev Konstantin Vasilevich	<i>Konstantin Vasilyevich Shevyrev, Gennady Alekseevich Onoprienko, Victor Parfentievich Voloshin, Dmitry Vladimirovich Martynenko, Sergey Alexandrovich Oshkukov, Evgeny Viktorovich Stepanov</i> The use of regenerated materials in the treatment of nonunion of long bones
B-104	Sinitsyna Tatyana Yuryevna	<i>Tatyana Yuryevna Sinitsyna, Marina Nikolaevna Paraskovey, Aryuna Purbodorzhievna Tsybdenova, Yuri Sodnomovich Balkhanov, Oleg Sergeevich Ochirov, Erdem Bairovich Dashinimaev</i> Assessment of safety and efficiency of decellularized collagen-laminine matrices containing poliguanidines when restoring wounded defects
B-105	Kuznetsova Valeria Sergeevna	<i>Tatyana Borisovna Bukharova, Andrei Vyacheslavovich Vasiliev, Valeria Sergeevna Kuznetsova, Egor Olegovich Osidak, Elena Valerievna Galitsyna, Georgy Evgenievich Leonov, Natalya Leonidovna Fatkhudinova, Sergei Petrovich Domogatsky, Igor Ivanovich Babichenko, Dmitry Vadimovich Goldstein, Anatoly Alekseevich Kulakov</i> Osteoinductive properties of collagen-fibronectin hydrogel with BMP-2 on the model of ortho- and ectopic neoosteogenesis in rats
B-106	Kazakova Gilyana Konstantinovna	<i>Gilyana Konstantinovna Kazakova, Tatyana Viktorovna Safronova, Irina Ivanovna Selezneva, Vladimir Valentinovich Zaitsev, Snezhana Alekseevna Tikhonova</i> Resorbable bioceramics in the Ca <sub>2</sub> P <sub>2</sub> O <sub>7</sub> – Mg <sub>2</sub> P <sub>2</sub> O <sub>7</sub> system obtained using stereolithographic printing with a given pore space architecture
B-107	Ivanova Oksana Alekseevna	<i>Oksana Alekseevna Ivanova, Elena Vladimirovna Ignatieva, Tatyana Aleksandrovna Lelyavina, Victoria Leonidovna Galenko, Margarita Yuryevna Komarova, Maria Yuryevna Sitnikova, Anna Alexandrovna Kostareva, Alexey Alexandrovich Sergushichev, Renata Igorevna Dmitrieva</i> Investigation of differential expression and signaling pathways in the skeletal muscle of patients with heart failure after physical rehabilitation
B-108	Presnyakov Evgeniy Valeryevich	<i>Evgeny Valeryevich Presnyakov, Oksana Vladimirovna Savva, Ilya Yadigerovich Bozo, Vladimir Sergeevich Komlev, Roman Vadimovich Deev</i> Features of biointegration of gene-activated osteoplastic material based on OCP
B-109	Sokolov Michael Evgenyevich	<i>Rustem Robertovich Islamov, Mikhail Evgenievich Sokolov, Iskander Azatovich Munasipov, Almaz Talgatovich Salikhov, Ilfat Faridovich Galyautdinov, Vage Arshaluysovich Markosyan, Evgeny Sergeevich Kim, Dmitry Aleksandrovich Trofimov, Arslan Ruslanovich Khamitov, Andrei Alexandrovich Izmailov, Mikhail Samuilovich Levin, Zufar Zufarovich Safiullo</i> Development of a model of ischemic cerebral stroke in mini-pigs
B-110	Kurangaleeva Sirina Vasilevna	<i>Sirina Vasilevna Kurangaleeva, Olga Andreevna Neustroeva, Albert Anatolyevich Rizvanov, Marina Olegovna Gomzikova</i> Delivery of specific membrane receptors to target cells using artificial microvesicles
B-111	Agatieva Elima Arbievna	<i>Rustem Robertovich Islamov, Elima Arbievna Agatieva, Ilnaz Marselevich Gazizov, Said Salmenovich Kembraev, Tatyana Mikhailovna Andreeva, Dmitry Eduardovich Tsyplakov, Mikhail Evgenievich Sokolov, Vahe Arshaluysovich Markosyan, Tafkil Takvich Faizov, Farid Vagizovich Bashirov</i> The method of modeling phlegmon of the maxillary region in a rat
B-112	Chelobanov Boris Pavlovich	<i>Boris Pavlovich Chelobanov, Vera Sergeevna Chernonosova, Alena Olegovna Stepanova, Maria Vasilevna Kharkov, Andrei Anatolyevich Karpenko, Pavel Petrovich Laktionov,</i> Cytotoxicity of sirolimus, paclitaxel and diclofenac against primary and transformed cells
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B-114	Dergilev Konstantin Vladimirovich	<i>Konstantin Vladimirovich Dergilev, Zoya Ivanovna Tsokolaeva, Julia Dmitrievna Vasilets, Elizaveta Izrailevna Ratner, Elena Viktorovna Parfenova</i> Urokinase receptor regulates the formation of cardiospheres
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B-116	Kalabusheva Ekaterina Pavlovna	<i>Ekaterina Pavlovna Kalabusheva, Elina Sergeevna Chermnykh, Andrei Alexandrovich Ryabinin, Ekaterina Andreevna Vorotelyak,</i> Reconstruction of the human hair follicle: prospects for the transition from three-dimensional organotypic cultures to replacement therapy
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B-119	Khramtsova Natalya Igorevna	<i>Natalya Igorevna Khramtsova, Sergey Alexandrovich Plaksin, Artyom Yurievich Sotskov</i> Viability of adipocytes and fibroblast-like cells in various types of lipoaspirate
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B-121	Schuman Evgeniy Alexandrovich	<i>Artem Vladimirovich Korotkov, Evgeniy Aleksandrovich Schuman, Oleg Germanovich Makeev, Elizaveta Anatolyevna Yakovleva</i> Three-dimensional cartilage construction obtained from autologic multipotent mesenchymal stromal cells
B-122	Butenko Alexandra Valeryevna	<i>Alexandra Valerievna Butenko, Anatoly Borisovich Shekhter, Alexei Leonidovich Fayzullin, Anatoly Fedorovich Vanin, Alexander Valerievich Pekshev, Tatyana Georgievna Rudenko</i> Various nitric oxide delivery methods to stimulate wound healing
B-123	Ostrovsky Dmitry Sergeevich	<i>Dmitry Sergeevich Ostrovsky, Maxim Yuryevich Gerasimov, Madina Khetagovna Hubetsova, Anton Dmitrievich Kazantsev, Sergey Anatolyevich Borzenok,</i> Cultivation of human corneal epithelial cells using type I collagen biocoating
B-124	Akopov Andrei Leonidovich	<i>Andrey Leonidovich Akopov, Garry V. Papayan, Stanislav D. Gorbunkov, D.D. Karal-Ogly, P. A. Kaplanyan, Sergey Vladimirovich Orlov, Elena A. Gubareva, E. V. Kuevda, D.M. Kuznetsova</i> Fluorescence imaging of revascularization of the transplanted segment of the primates trachea as a promising method for graft assessment
B-125	Salafutdinov Ilnur Ildusovich	<i>Alexander Vladimirovich Laikov, Julia Dzhafarovna Romanova, Dilara Zilbarovna Gatina, Ilnur Ildusovich Salafutdinov</i> Proteomic Profiling for Evaluation and Testing of Recombinant Adenoviruses
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B-127	Ryabinin Andrey Alexandrovich	<i>Andrey Alexandrovich Ryabinin, Ekaterina Pavlovna Kalabusheva, Elina Sergeevna Chermnykh, Ekaterina Andreevna Vorotelyak,</i> Development of technologies for obtaining autologous skin equivalents and hair follicles using human iPSCs
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B-130	Didenko Maria Olegovna	<i>Sergey Vladimirovich Sirak, Evgeny Vyacheslavovich Shchetinin, Nikolay Nikolaevich Didenko, Alla Grigorievna Sirak, Maria Olegovna Didenko</i> The method of creating an experimental model of osteoporosis

B-131	Shchukina Elena Sergeevna	<i>Elena Sergeevna Shchukina, Irina Sergeevna Kashapova, Dmitry Vladimirovich Popov, Gleb Yurievich Kosovsky</i> The use of various surgical materials to reduce the effects of reoperations in rabbits
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B-133	Komarova Margarita Yuryevna	<i>Margarita Yuryevna Komarova, Oksana Alekseevna Ivanova, Elena Vladimirovna Ignatieva, Renata Igorevna Dmitrieva</i> C2C12 as a model for studying muscle fiber degeneration in laminopathies
B-134	Sergeeva Olga Vladimirovna	<i>Olga Vladimirovna Sergeeva, Renata Salavatovna Yalchina, Tatyana Olegovna Abakumova, Tatyana Alexandrovna Prikazchikova, Ilya Igorevich Kurochkin, Timofey Sergeevich Zatsepin,</i> Comparative analysis of gene expression during inhibition of RNA helicase DDX3 in vitro and in vivo
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B-136	Evseeva Maria Nikolaevna	<i>Maria Nikolaevna Evseeva, Daniyar Taalaibekovich Dyikanov, Maxim Nikolaevich Karagyaur, Yuri Petrovich Rubtsov, Konstantin Yurevich Kulebyakin</i> The homeobox hematopoietic transcription factor Hhex is a new regulator of adipocytic differentiation
B-137	Ratushnyak Maria Grigoryevna	<i>Maria Grigoryevna Ratushnyak, Galina Aronovna Pospypanova, Julia Pavlovna Semochkina, Olga Vladimirovna Vysotskaya, Alexander Ivanovich Glukhov, Elizaveta Yuryevna Moskaleva</i> Features of repair of double-stranded DNA breaks in mouse neural stem / progenitor cells after gamma irradiation
B-138	Pishchelko Anna Olegovna	<i>Anna Olegovna Pishchelko, Mikhail Vasilyevich Svetlik, Nikolai Mikhailovich Nemirovich-Danchenko, Marina Stanislavovna Kudobaeva, Tatyana Viktorovna Ananyina, Yana Alexandrovna Tyumentseva, Anna Vladimirovna Naumova, Marina Yuryevna Khodanovich</i> The use of viral vectors to study neurogenesis in animals in vivo
B-139	Smirnova Svetlana Nikolaevna	<i>Svetlana Nikolaevna Smirnova, Anna Alexandrovna Zhukova, Elizaveta Sergeevna Ageeva, Ekaterina Vladimirovna Laykova, Vladimir Vladimirovich Oberemok</i> Evaluation of the influence of antismunical thiophosphate 5.8SrRNA-11 Fragment on the growth of hep-2 human carcinoma cell line
B-140	Bukharova Tatyana Borisovna	<i>Tatyana Borisovna Bukharova, Anna Sergeevna Efremova, Natalya Vadimovna Bulatenko, Julia Leonidovna Melyanovskaya, Nika Valentinovna Petrova, Natalya Yuryevna Kashirskaya, Elena Kyastutisovna Zhekaite, Rena Abulfazovna Zinchenko, Elena Ivanovna Kondratyeva, Dmitry Vadimovich Goldstein</i> Estimation of functional activity of cftr protein on the model of gut organoids at new and rare mutations of the gene
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B-145	Polina Orlova	<i>Polina Orlova, Maria Gridina, Alexey Korablev, Oleg Serov</i> Normalization of the iPSC karyotype obtained from patient's fibroblasts with large-scale duplication of the distal portion of the third chromosome and undifferentiated mental retardation
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B-147	Sherstyuk Vladimir Vladimirovich	<i>Vladimir Vladimirovich Sherstyuk, Guzel Ildarovna Davletshina, Suren Minasovich Zakiyan</i> Testing CRISPR / Cas Systems on Rat Pluripotent Cells
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B-149	Starostina Irina Georgievna	<i>Irina Georgievna Starostina, Alisa Almazovna Shaimardanova, Diana Rustamovna Agliullina, Valeria Vladimirovna Solovyova, Ivan Antonovich Yakovlev, Artur Aleksandrovich Isaev, Roman Vadimovich Deev, Albert Anatolyevich Rizvanov</i> HEK293A Cell Modification Using SAM CRISPR-Cas9 Technology for Transcriptional Activation of the Dysferlin Gene
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B-153	Surina Elizaveta Rafaelevna	<i>Elizaveta Rafaelevna Surina, Zhanna Alekseevna Hakobyan, Lyalya Adygamovna Gabbasova</i> Actual issues of harmonization and development of terms used in the field of biomedicine
B-154	Mikhailov Vyacheslav Mikhailovich	<i>Vyacheslav Mikhailovich Mikhailov, Anastasia Vladimirovna Sokolova, Elena Vasilievna Kaminskaya, Nadezhda Stepanovna Skripkina, Natalya Aleksandrovna Timonina, Violetta Vasilievna Kravtsova, Igor Ilyich Krivoy</i> Nemioloablative bone marrow cell translation as a method for cellular therapy of monogenous diseases
B-155	Khmelevskaya Svetlana Anatolievna	<i>Svetlana Anatolyevna Khmelevskaya</i> Regenerative medicine and situations of "last hope": moral and legal problems
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B-158	Douglas Timothy E.L.	<i>Timothy E.L. Douglas</i> Dairy-derived biomaterials for tissue regeneration

B-159	Bozhokin Mikhail Sergeevich	<i>Mikhail Sergeevich Bozhokin, Svetlana Anatolyevna Bozhkova, Daniil Valerievich Kachkin, Alexander Anatolyevich Rubel, Julia Viktorovna Sopova, Julia Alexandrovna Nashchekina, Miralda Ivanovna Blinova, Mikhail Georgievich Khotin</i> Development of a cell engineering construct with a modified genotype of MMSC culture for the replacement of articular tissue defects
B-160	Boldyreva Mariya Aleksandrovna	<i>M.A. Boldyreva, Yu.D. Molokotina, E.K. Shevchenko, I.B. Beloglazova, E.S. Zubkova, K.V.Dergilev, P.I. Makarevich, E.I. Ratner, E.V. Parfenova</i> Transplantation of cell sheets from adipose-derived MSC overexpressing hepatocyte growth factor (HGF), effectively stimulates regeneration of murine ischemic limb
B-161	Reshetnikov Dmitry Alexandrovich	<i>Dmitry Alexandrovich Reshetnikov, Julia Sergeevna Vershinina, Lyudmila Mikhailovna Mezhevikina</i> Adhesion and proliferative activity of human mesenchymal stromal cells (MSCh) and primary mouse embryonic fibroblasts (PEFm) when cultured on polyelectrolyte nano-films
B-162	Rostovtseva Alexandra Ivanovna	<i>Maxim Nikolaevich Karagyaur, Alexandra Ivanovna Rostovtseva, Vadim Yuryevich Balabanyan, Polina Sergeevna Klimovich, Ekaterina Vladimirovna Semina, Dmitry Viktorovich Stambolsky</i> A bicistronic genetic construct encoding a brain neurotrophic factor and urokinase plasminogen activator stimulates the restoration of a damaged nerve



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