

# **4<sup>th</sup> INTERNATIONAL CONFERENCE ON REGENERATIVE MEDICINE & HEALTHY AGING**

**May 11-12, 2016**

**Astana, Republic of Kazakhstan**

4<sup>th</sup> International Conference on “Regenerative Medicine & Healthy Aging”



Dear Conference guests and participants, dear friends,

I am delighted to welcome you to Astana and to Nazarbayev University as we open the 4th International Scientific Conference “Regenerative Medicine & Healthy Aging” organized by the National Laboratory Astana (NLA) at Nazarbayev University. I am further delighted to note that this conference held every two years has set strong roots and developed into a flagship conference that all our NLA colleagues and the broader NU community look forward to. Let me in particular welcome the scientists from Europe, China, Japan, Korea, USA and Kazakhstan who will lead presentations and discussions over the next two days. Let me also welcome our participants from research organizations, educational institutions, healthcare industry representatives, and officials of the Government of the Republic of Kazakhstan. I also take this opportunity to share with you that we opened the Nazarbayev University School of Medicine in August last year. I am thrilled that we are making concrete strides towards forging a modern integrated academic health care model to serve Kazakhstan and the broader region. The conference acts as an important catalyst towards achieving this goal.

The purpose of this forum is to promote real dialogue between national and international scientists in a rapidly advancing and evolving medical research area, namely gerontology and biomedicine. Thus the conference program covers a wide range of topics including innovative medicine, bioengineering, cell technologies, healthy aging, gerontology, neurodegeneration, and neurological disorders.

The manifold challenges science faced with in today’s world can only be adequately addressed through international research collaboration. I shall be pleased if the dialogue over the next two days can contribute to the internationalization of health care research in Kazakhstan by building new contacts and exchange on cutting-edge research. I am excited that this 4th International Conference will among others showcase research initiatives undertaken by Kazakhstan’s younger generation of researchers.

I would like to thank the Organizing, Steering, and Program committees, as well as other contributors who have worked hard to bring this event to life. Our special thanks go to our outstanding participants who continue to shape the quality of this conference. As stated earlier, it is our hope that your participation will further stimulate the professional aspirations of Kazakhstan’s new generation of researchers and strengthening our mutual research links.

We look forward to a successful conference that translates into tangible outcomes.

Sincerely Yours,

Shigeo Katsu

President of Nazarbayev University

**4<sup>th</sup> International Conference on “Regenerative Medicine & Healthy Aging”**

Astana, Republic of Kazakhstan



Dear Friends and Colleagues,

It is my pleasure and honor to welcome you to the 4<sup>th</sup> International Scientific Conference “Regenerative Medicine & Healthy Aging”. Nazarbayev University in collaboration with NLA continues its tradition of hosting the international scientific community in Astana, Kazakhstan. The Conferences held during the previous years, brought together exceptional researchers and scientists to discuss the emerging trends in biomedicine. This year, Nazarbayev University and NLA welcome leading scientists, clinicians and scholars to initiate a dialogue on advanced cell technologies, bioengineering, healthy aging, gerontology, and neurodegeneration. The conference is structured around plenary sessions, keynote lectures, poster presentations, providing a multidisciplinary forum for researchers, clinical doctors, policy makers and representatives of healthcare system. It facilitates sharing original ideas and Question & Answer from the audiences that will contribute to breakthrough discoveries in biomedical research. I welcome you to Nazarbayev University and hope that the scholarly Question & Answer from the audiences held during the conference will inspire you to identify new scientific discoveries. Please take advantage of this opportunity and enjoy being a part of this important dialogue.

Sincerely Yours,

Anne Lonsdale

Provost of Nazarbayev University

Astana, Kazakhstan



Dear Friends and Colleagues!

On behalf of the Organizing Committee, it is my great pleasure to welcome you to Astana and to the 4th International Scientific Conference on “Regenerative Medicine & Healthy Aging” hosted by the Center for Life Sciences of National Laboratory Astana at Nazarbayev University, Astana, Kazakhstan.

Regenerative medicine has become increasingly important over the last decade owing to rapid changes in society. Therefore this very interdisciplinary field of biomedical research requires suitable platforms for scientific exchange. This Conference has been designed to provide such platform in order to discuss innovative and comprehensive approaches of the latest research developments of Regenerative Medicine and Healthy Aging. Through this conference, we would like to engage with all of you in an open and constructive dialogue about the innovative advances in regenerative medicine, the creation of scientific foundations of healthy aging, the development of international cooperation in innovative research directions in the field of biomedicine.

Scientists from leading universities of United Kingdom, Germany, Korea, China, Russia and United States, senior management of research organizations, educational institutions, healthcare industry representatives, officials and representatives of government of Kazakhstan are expected to attend this year’s conference.

We hope that you will enjoy the Conference and that your interaction with your colleagues from different countries will stimulate a creative exchange of ideas and will be personally rewarding. We also hope and trust that you will enjoy your visit to the very beautiful and exciting city of Astana, in May 2016.

Sincerely Yours,

Zhaxybay Zhumadilov

Director-General of National Laboratory Astana, Nazarbayev University

Astana, Kazakhstan

THE 4 <sup>th</sup> INTERNATIONAL SCIENTIFIC CONFERENCE ON “REGENERATIVE MEDICINE & HEALTHY AGING”	
<b>Organizer</b>	Center for Life Sciences, National Laboratory Astana, Nazarbayev University
<b>Date</b>	May 11-12, 2016
<b>Venue</b>	Nazarbayev University
<b>Website</b>	<a href="http://cls.nu.edu.kz">http://cls.nu.edu.kz</a>
<b>Organizing Committee</b>	<p><b>Chairman:</b> Shigeo Katsu, President, Nazarbayev University</p> <p><b>Co-chair:</b> Anne Lonsdale, Provost, Nazarbayev University</p> <p><b>Co-chair:</b> Zhaxybay Zhumadilov, Director General, National Laboratory Astana, Nazarbayev University</p>
<b>Members of organizing committee</b>	<p>Kumekova Saltanat</p> <p>Tursonjan Tokay</p> <p>Talgat Nurgozhin</p> <p>Sholpan Askarova</p> <p>Ainur Akilzhanova</p> <p>Ulykbek Kairov</p> <p>Timur Saliev</p> <p>Kulzhan Berikkhanova</p> <p>Almagul Kushugulova</p> <p>Adil Supiyev</p> <p>Farkhad Olzhayev</p> <p>Yerbol Mussin</p> <p>Aiym Kaiarlykyzy</p> <p>Ainur Akhmetova</p> <p>Xeniya Merinyanu</p>
<b>Coordinators</b>	<p>Kulzhan Berikkhanova: Tel: +7 (7172) 70 64 94      E-mail: <a href="mailto:kberikkhanova@nu.edu.kz">kberikkhanova@nu.edu.kz</a></p> <p>Alla Shramko: Tel: +7 (7172) 70 57 61      E-mail: <a href="mailto:alla.shramko@nu.edu.kz">alla.shramko@nu.edu.kz</a></p> <p>Yerbol Mussin: Tel: +7 (7172) 70 64 93      E-mail: <a href="mailto:ymussin@nu.edu.kz">ymussin@nu.edu.kz</a></p> <p>Daniyar Sadyrbekov: Tel: +7 (7172) 70 93 13      E-mail: <a href="mailto:daniyar.sadyrbekov@nu.edu.kz">daniyar.sadyrbekov@nu.edu.kz</a></p>

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Day 1 – Wednesday 11 <sup>th</sup> May, 2016		Venue: Nazarbayev University, Senate Hall
08:00 – 09:00	<b>Registration</b>	Venue: Nazarbayev University, 1 <sup>st</sup> floor Foyer
09:00 – 09:15	<b>OPENING SESSION</b>	Venue: Nazarbayev University, Senate Hall Moderator: Zhaxybay Zhumadilov, Director General of National Laboratory Astana
09:00 – 09:05	<b>Welcome &amp; Introduction</b> by Zhaxybay Zhumadilov	
09:05 – 09:10	<b>Welcome note</b> by Mr. Shigeo Katsu, President of Nazarbayev University	
09:10 – 09:15	<b>Welcome note</b> by Massimo Pignatelli, Dean of the School of Medicine, Nazarbayev University	
<b>SESSION 1 – INNOVATIVE MEDICINE, BIOENGINEERING &amp; CELL TECHNOLOGIES</b>		
<b>Session 1.1. Precision Medicine &amp; Cell Technology</b>		
Moderators: Zhaxybay Zhumadilov, Richard Barker, Elisabeth Parrish, Avi Roy, Kyung-Sun Kan Massimo Pignatelli		
09:15 – 09:35	<b>Richard Barker</b> <i>Professor of Centre for the Advancement of Sustainable Medical Innovation (CASMI), University Oxford, UK</i>	<b>Keynote speech:</b> Precision medicine – potential, challenges and opportunities
09:35 – 09:40	Question & Answer from the audience	
09:40 – 10:00	<b>Elisabeth Parrish</b> <i>CEO of BioViva Sciences USA Inc. Washington, USA</i>	<b>Keynote speech:</b> Gene Therapy for Preventive and Restorative Medicine
10:00 – 10:05	Question & Answer from the audience	
10:05 – 10:35	<b>Coffee Break &amp; Group Photo</b>	
10:35 – 10:55	<b>Avi Roy</b> <i>President of the Biogerontology Research Foundation (BGRF), Partner at Deep Knowledge Life Sciences, UK</i>	<b>Keynote speech:</b> Expediting Therapeutics from Research to Market
10:55 – 11:00	Question & Answer from the audience	
11:00 – 11:20	<b>Kyung-Sun Kang</b> <i>Director of Adult Stem Cell Research Center, College of Veterinary Medicine, Seoul National University,</i>	<b>Keynote speech:</b> Stem Cells in Inflammatory Diseases

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	Korea	
11:20– 11:25	Question & Answer from the audience	
11:25 – 11:45	<p><b>Massimo Pignatelli</b> Dean of School of Medicine, Nazarbayev University, Astana, Kazakhstan</p>	<p><b>Keynote speech:</b> Precision medicine – challenging the present and planning the future</p>
11:45 – 11:50	Question & Answer from the audience	
11:50 – 12:20	Comments from the moderators and audience, discussion	
12:20– 13:20	Lunch / Poster presentation/ Exhibition	Venue: NU / Main Atrium
13:20 – 14:10	<p><b>Rapid Sharing Reports:</b> Moderators: Tursonjan Tokay, Sholpan Askarova</p>	
13:20 – 13:30	<p><b>Vyacheslav Ogay</b> National Laboratory Astana, Nazarbayev University, Astana, Kazakhstan</p>	Adipose-derived perivascular stem cells as a source for cell therapy
13:30 – 13:35	Question & Answer from the audience	
13:35 – 13:45	<p><b>Daulet Sharipov</b> Kazakh National Medical University Named after S.D. Asfendiyarov, Almaty, Kazakhstan</p>	Using multi-omics technologies in innovative medicine
13:45 – 13:50	Question & Answer from the audience	
13:50 – 14:00	<p><b>Damira Kanayeva</b> School of Science and Technology, Nazarbayev University, Astana, Kazakhstan</p>	Selection, characterization, and application of DNA aptamers for the capture and detection of Mycobacterium tuberculosis protein MPT64
14:00 – 14:05	Question & Answer from the audience	
14:05 – 14:10	Summary / Comments	
<p><b>Session 1.2. Innovative Biotechnology &amp; Bioengineering</b> Moderators: Timur Saliev, Vyacheslav Ogay</p>		
14:10 – 14:30	<p><b>Shen Huiming</b> Professor at Hongqiao International Institute of Medicine, Shanghai Jiaotong University, China</p>	<p><b>Keynote speech:</b> A critical role of IFN<math>\gamma</math> in priming MSCs-mediated immunosuppression</p>

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14:30 – 14:35	Question & Answer from the audience	
14:35 – 15:55	<b>Rapid Sharing Reports:</b>	
14:35 – 14:45	<b>Atamyrat Serekov</b> <i>Kazakh National Medical University  Named after S.D. Asfendiyarov,  Almaty, Kazakhstan</i>	Clinical and laboratory substantiation of irrigant solutions for medical treatment of root canals and the role of biofilms in polyresistance of intracanal microflora
14:45 – 14:50	Question & Answer from the audience	
14:50 – 15:00	<b>Timur Saliev</b> <i>Center for Life Sciences, National  Laboratory Astana, Nazarbayev  University, Astana, Kazakhstan</i>	Bio-medical applications of ultrasound
15:00 – 15:05	Question & Answer from the audience	
15:05 – 15:15	<b>Kabylbek Abugaliyev</b> <i>National Scientific Center of Oncology  and Transplantation, Astana,  Kazakhstan</i>	Decellulized xenogeneic collagen-elastin matrix for tissue engineering and regenerative medicine
15:15 – 15:20	Question & Answer from the audience	
15:20 – 15:30	<b>Sergey Mikhailovsky</b> <i>School of Engineering, Nazarbayev  University, Astana, Kazakhstan</i>	Composite polymer – Carbon wound dressings
15:30 – 15:35	Question & Answer from the audience	
15:35 – 15:45	<b>Alma Akhmetova</b> <i>Center for Life Sciences, National  Laboratory Astana, Nazarbayev  University, Astana, Kazakhstan</i>	Carbon monolith for hemoperfusion
15:45 – 15:50	Question & Answer from the audience	
15:50 – 15:55	Summary / Comments	
15:55 – 16:30	Coffee Break	
<b>SESSION 2 – HEALTHY AGING &amp; GERONTOLOGY</b>		
<b>Session 2.1. Healthy Aging &amp; Genome</b>		
<i>Moderators: Rakhmetkazhy Bersimbay, Ainur Akilzhanova</i>		
16:30 – 16:50	<b>Rakhmetkazhy Bersimbay</b>	<b><u>Keynote speech:</u></b>



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	<i>Department of General Biology and Genomics, Astana, Kazakhstan</i>	MiRNA As a Molecular Marker of Radon-Induced Lung Cancer
<b>16:50 – 16:55</b>	<i>Question &amp; Answer from the audience</i>	
<b>16:55 – 18:15</b>	<b><u>Rapid Sharing Reports:</u></b>	
<b>16:55– 17:05</b>	<b>Temirkhan Kulkhan</b> <i>Deputy Head of the Republican Center for Health Development of the Ministry of Health and Social Development, Astana, Kazakhstan</i>	The Scientific Research Institute on Gerontology and Antiaging Medicine: The horizons of development
<b>17:05 – 17:10</b>	<i>Question &amp; Answer from the audience</i>	
<b>17:10 – 17:20</b>	<b>Gulnara Svyatova</b> <i>Scientific Center of Obstetrics, Gynecology and Perinatology, Almaty, Kazakhstan</i>	First International Interger Bank of DNA in the Republic of Kazakhstan
<b>17:20 – 17:25</b>	<i>Question &amp; Answer from the audience</i>	
<b>17:25– 17:35</b>	<b>Ainur Akilzhanova</b> <i>Center for Life Sciences, National Laboratory Astana, Nazarbayev University, Astana, Kazakhstan</i>	A targeted sequencing reveal overlapping pattern of genetic variants in patients with cardiomyopathy with cardiac arrhythmias in Kazakhstan
<b>17:35 – 17:40</b>	<i>Question &amp; Answer from the audience</i>	
<b>17:40– 17:50</b>	<b>Damilya Salimbaeva</b> <i>Scientific Center of Obstetrics, Gynecology and Perinatology, Almaty, Kazakhstan</i>	The spectrum of mutations in PAH gene of Kazakhs and Uygurs with phenylketonuria
<b>17:50 – 17:55</b>	<i>Question &amp; Answer from the audience</i>	
<b>17:55– 18:05</b>	<b>Saule Rakhimova</b> <i>Center for Life Science, Nazarbayev University, Astana, Kazakhstan</i>	Transcriptome profiling and pathway analysis of esophageal squamous cell carcinoma in Kazakhstan
<b>18:05 – 18:10</b>	<i>Question &amp; Answer from the audience</i>	
<b>18:10 – 18:15</b>	<b>Summary / Comments</b>	
<b>18:15 – 18:20</b>	<b>Conference 1<sup>st</sup> day closing</b>	<i>Zhaxybay Zhumadilov</i>
<b>19:00 – 22:00</b>	<b>Conference Speakers Welcome Reception</b>	

Day 2 – Thursday 12 <sup>th</sup> May, 2016		
SESSION 2 – HEALTHY AGING & GERONTOLOGY (continued)		
Session 2.2. Age-related diseases and prevention		
Moderators: Kerim Mutig, Almagul Kushugulova		
09:00 – 09:25	<b>Galina Ignatova</b> <i>Professor and Head of the Department of Internal Medicine, South Ural State Medical University, Russia</i>	<b><u>Keynote speech:</u></b> Respiratory diseases – focus on prevention
09:25 – 09:30	<i>Question &amp; Answer from the audience</i>	
09:30– 09:50	<b>Kerim Mutig</b> <i>Academic Director of the Berlin Medical College, PD. Dr. at the Institute for Vegetative Anatomy, Charité – Medical University, Berlin, Germany</i>	<b><u>Keynote speech:</u></b> Progress in understanding of Hypertension
09:50 – 09:55	<i>Question &amp; Answer from the audience</i>	
09:55 – 11:30	<b><u>Rapid Sharing Reports:</u></b>	
09:55 – 10:05	<b>Adil Supiyev</b> <i>Center for Life Sciences, National Laboratory Astana, Nazarbayev University, Astana, Kazakhstan</i>	Determinants and distribution of dyslipidaemia among elderly population in Astana region
10:05– 10:10	<i>Question &amp; Answer from the audience</i>	
10:10 – 10:20	<b>Anara Tursynbekova</b> <i>Central Clinical Hospital of the Medical Center Office of the President of the Republic of Kazakhstan, Almaty, Kazakhstan</i>	Study of the main risk factors of the coronary heart disease in civil servants
10:20– 10:25	<i>Question &amp; Answer from the audience</i>	
10:25 – 10:35	<b>Zhanar Otarova</b> <i>Kazakh Research Institute of Eye Diseases, Almaty</i>	The use of angiogenesis inhibitors in the treatment of diabetic macular edema
10:35 – 10:40	<i>Question &amp; Answer from the audience</i>	
10:40– 10:50	<b>Kakharman Yesmembetov</b>	

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	<i>National Scientific Center for Oncology and Transplantology, Astana, Kazakhstan</i>	Treatment of end-stage liver disease in the National Scientific Center for Oncology and Transplantology: views and perspectives
<b>10:50 – 10:55</b>	<i>Question &amp; Answer from the audience</i>	
<b>10:55 – 11:05</b>	<b>Bakytgul Yermekbayeva</b> <i>Center for Life Science, Nazarbayev University, Astana, Kazakhstan</i>	Potential geroprotective activity of grape polyphenol concentrate
<b>11:05 – 11:10</b>	<i>Question &amp; Answer from the audience</i>	
<b>11:10 – 11:20</b>	<b>Elena Kukhar</b> <i>Department of Microbiology and Biotechnology, Kazakh Agro Technical University, Astana, Kazakhstan</i>	Antifungal activity of some plants in Northern Kazakhstan: <i>in vitro</i> study
<b>11:20 – 11:25</b>	<i>Question &amp; Answer from the audience</i>	
<b>11:25 – 11:30</b>	<b>Summary / Comments</b>	
<b>11:30 – 12:00</b>	<b>Coffee Break</b>	
<b>SESSION 3 – NEURODEGENERATION &amp; NEUROLOGICAL DISORDERS</b>		
<i>Moderators: Paul Gard, Sholpan Askarova</i>		
<b>12:00 – 12:20</b>	<b>Paul Gard</b> <i>Professor of School of Pharmacy &amp; Biomolecular Sciences, University of Brighton, Brighton, UK</i>	<b><u>Keynote speech:</u></b> Brain-derived neurotrophic factor, neuronal repair and mental health
<b>12:20 – 12:25</b>	<i>Question &amp; Answer from the audience</i>	
<b>12:25 – 12:45</b>	<b>Dieter Riethmacher</b> <i>Professor of School of Medicine, Nazarbayev University, Astana, Kazakhstan</i>	<b><u>Keynote speech:</u></b> Glial cells and their molecules in nerve regeneration
<b>12:45 – 12:50</b>	<i>Question &amp; Answer from the audience</i>	
<b>12:50 – 13:30</b>	<b><u>Rapid Sharing Reports:</u></b>	
<b>12:50 – 13:00</b>	<b>Azat Shpeckov</b> <i>Republican Research Center for Neurosurgery, Astana, Kazakhstan</i>	Vagus nerve stimulation for epilepsy
<b>13:00 – 13:05</b>	<i>Question &amp; Answer from the audience</i>	
<b>13:05 – 13:15</b>	<b>Yingqiu Xie</b>	

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	<i>School of Sciences and Technology, Nazarbayev University, Astana, Kazakhstan</i>	c-Met signaling as a promise of targeted therapy in glioblastoma tumor
<b>13:15 – 13:20</b>	<i>Question &amp; Answer from the audience</i>	
<b>13:20 – 13:30</b>	<b>Sholpan Askarova</b> <i>Center for Life Sciences, National Laboratory Astana, Nazarbayev University, Astana, Kazakhstan</i>	Dysfunction of Cerebral Endothelium in Alzheimer's disease
<b>13:30 – 13:35</b>	<i>Question &amp; Answer from the audience</i>	
<b>13:35 – 13:40</b>	<b>Summary / Comments</b>	
<b>13:40– 14:40</b>	<b>Lunch / Poster presentation/ Exhibition</b>	<i>Venue: NU / Main Atrium</i>
<b>*SESSION 4 – BEST POSTER PRESENTATION AWARD</b>		
<i>Moderators: Tursonjan Tokay, Sholpan Askarova</i>		<i>Venue: NU / Main Atrium</i>
<b>13:40 – 16:10</b>	<b>Presentation for the «Best Poster Presentation Award» &amp; Coffee Break</b>	
<b>16:10 – 16:30</b>	<b>Evaluation of the best poster presentation by jury</b>	
<b>SATELLITE SESSION: ROUND TABLE</b>		
<i>Moderator: Ainur Akhilzhanova</i>		<i>Venue: Nazarbayev University, Room 1251</i>
<b>15:00 – 17:00</b>	<b>Genomic Research in Kazakhstan: Directions, Challenges, Integrations</b>	
<b>PLENARY SESSION</b>		
<i>Moderator: Zhaxybay Zhumadilov</i>		<i>Venue: Nazarbayev University, Senate Hall</i>
<b>16:30 – 16:55</b>	<b>Alex Zhavoronkov</b> <i>International adjunct Professor at the Moscow Institute of Physics and Technology.</i>	Deep learning for aging biomarker development using simple historical blood tests
<b>16:55 – 17:00</b>	<i>Question &amp; Answer from the audience</i>	
<b>17:00 – 17:25</b>	<b>Charles Cantor</b> <i>Director of the Center for Advanced Biotechnology at Boston University, USA</i>	A new approach to developing therapies for age-related diseases
<b>17:25 – 17:30</b>	<i>Question &amp; Answer from the audience</i>	
<b>17:30 – 17:50</b>	<b>Best Poster Presentation Award</b>	<i>Venue: NU / Senate Hall</i>
<b>17:50 – 18:00</b>	<b>Chairs Closing Comments</b>	<i>Zhaxybay Zhumadilov</i>

*\*All presenters for contest are required to be next to their posters during poster session!*

List of presentations for the «Best Poster Presentation Award»			
Poster №.	Full Name	Title	Affiliation
P-01	Myngbay Askhat	Elevated Levels of Plasma Collagen Triple Helix Repeat-Containing (CTHRC1) Protein Correlates with Increased Granulocytopoiesis and Higher Rheumatoid Arthritis Disease Severity Score	<i>National Laboratory Astana</i>
P-02	Amirbekov Aday	Alterations of oncogenes expression in human NK cells in cancer patients	<i>Asfendiyarov Kazakh National Medical University (Almaty, Kazakhstan)</i>
P-03	Adilbayeva Altynai	Fibroblast-like synoviocytes from rheumatoid arthritis and osteoarthritis showed different potential for cell migration and differentiation	<i>National Laboratory Astana</i>
P-04	Balabiyev Arnat	Cancer cells response on the microtubule-inhibiting drugs	<i>National Laboratory Astana</i>
P-05	Dana Akilbekova	Biomechanical properties of collagens studied by Brillouin light scattering spectroscopy and atomic force microscopy	<i>National Laboratory Astana</i>
P-06	Kakharman Yesmembetov	Treatment of end-stage liver disease in the JSC National Scientific Center for oncology and transplantology, Astana: views and perspectives	<i>JSC National Scientific Center for oncology and transplantology</i>
P-07	Orynassar Karapina	Migration characteristics of cells grown in embryonic microenvironment and under antiviral agents	<i>National Laboratory Astana</i>
P-08	Tashtitova Lyailya	Effectiveness of public screening for glaucoma	<i>Kazakh Research Institute of Eye Diseases, Almaty, Kazakhstan</i>
P-09	Kumasheva Venera	Generation of hepatocyte-like cells from human pluripotent stem cells	<i>National Laboratory Astana</i>
P-010	Abdikerim Saltanat	Анализ ассоциации метилирования генов регуляции клеточной пролиферации с риском развития колоректального	<i>РГП "Институт общей генетики и цитологии" КН МОН РК (Алматы,</i>

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		рака	Казахстан)
<b>P-011</b>	Baidosova Sholpan	Isolation and enrichment of rat bone marrow mesenchymal stem cells	<i>Stem Cell Laboratory, National Center for Biotechnology (Astana, Kazakhstan)</i>
<b>P-012</b>	Kachiyeva Zulfiya	Определение полиморфизмов гена dkk1 у больных с диагнозом остеоартрит.	<i>КазНМУ им. С.Д. Асфендиярова НИИ ФМП им. Б.А.Атчабарова</i>
<b>P-013</b>	Masabaeva Meruet	Полиморфизм rs1143627 гена il1b: связь с хроническим вирусным гепатитом и прогрессированием в цирроз печени	<i>Государственный медицинский университет г.Семей, Казахстан</i>
<b>P-014</b>	Murzakhmetova Sabina	Anticancer effects of leech extract on breast cancer cells	<i>Nazarbayev University, School of Science and Technology (Astana, Kazakhstan)</i>
<b>P-015</b>	Safarova Yuliya	Mscs functionalized with osteophilic polymer enhance compact bone regeneration in osteoporotic rat model in vivo.	<i>Школа Инженерии/ Национальная Лаборатория Астана</i>
<b>P-016</b>	Zhidkeeva Ramilya	Усовершенствование эпидемиологического мониторинга за циркуляцией возбудителя бруцеллёза в казахстане на основе внедрения молекулярно-генетического типирования штаммов brucella spp.	<i>Институт молекулярной биологии и биохимии им. М.А. Айтхожина</i>
<b>P-017</b>	Smagulova Gulsum	Molecular-genetical tumor parameters at patients with lung cancer taking into account a smoking factor	<i>Казахский научно-исследовательский институт онкологии и радиологии</i>
<b>P-018</b>	Timur Saliyev	Assessment of antimicrobial activity and cytotoxicity of silver nanoparticles treated with electromagnetic fields	<i>National Laboratory Astana</i>
<b>P-019</b>	Akhmetova Alma	Removal of low and middle molecular weight toxins by activated carbon materials	<i>National Laboratory Astana</i>
<b>P-020</b>	Madina Zhalbinova	Influence of gamma-glutamyl carboxylase (GGCX) on warfarin	<i>National Laboratory Astana</i>

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<b>P-021</b>	Aiym Kaiyrlykyzy	Adiponectin plasma levels in patients with age-related dementia	<i>National Laboratory Astana</i>
<b>P-022</b>	Bauyrzhan Umbayev	Разработка полимер-белкового конъюгата уриказы для пероральной терапии подагры	<i>National Laboratory Astana</i>
<b>P-023</b>	Abdul-Razak Masoud	Restoration of mesenchymal stem cell function using pharmacological agents	<i>National Laboratory Astana</i>
<b>P-024</b>	Abdul-Razak Masoud	Assessing the cytokine content of human platelet-rich plasma	<i>National Laboratory Astana</i>
<b>P-025</b>	Shramko Alla	Protocol optimization for obtaining lyophilized human amniotic membrane extract	<i>National Laboratory Astana</i>
<b>P-026</b>	Kauanova Sholpan	Rapid evaluation of DNA damage with Comet assay in combination of high throughput microscopy	<i>National Laboratory Astana</i>
<b>P-027</b>	Shayakhmetov Yerassyl	Astroprotective potential of extract from <i>Limonium Gmelinii</i> for stroke therapy	<i>National Laboratory Astana</i>
<b>P-028</b>	Nurgul Imangali	Role of astrocyte aging in the pathogenesis of Alzheimer’s disease	<i>National Laboratory Astana</i>
<b>P-029</b>	Sutuyeva Leila	Экспериментальное изучение комплекса энтеросорбентов на основе углеродного материала и растительных волокон в качестве геропротектора	<i>Kazakh National University. Al-Farabi, Amaty</i>
<b>P-030</b>	Madina Sarsenova	The study of the therapeutic effects of hyaluronic acid, chondroinductive factors and mesenchymal stem cells on regeneration of articular cartilage defects in rabbits	<i>School of Natural Sciences, Eurasian National University, Astana</i>