

FEDERAL AGENCY OF SCIENTIFIC ORGANIZATION
SIBIRIAN BRANCH OF RUSSIAN ACADEMY OF SCIENCE
SCIENTIFIC INSTITUTE OF CLINICAL AND EXPERIMENTAL LYMPHOLOGY
SIBIRIAN BRANCH OF MEDICAL SCIENCES
INSTITUTE OF INTERNAL AND PREVENTIVE MEDICINE
FEDERAL RESEARCH CENTER INSTITUTE OF CYTOLOGY AND GENETICS OF SB RAS

**The International Symposium
Systems Biology and Biomedicine
(SBioMed-2016)**

Program

30-31 August 2016

Novosibirsk, Russia

ORGANIZERS

FEDERAL AGENCY OF SCIENTIFIC ORGANIZATION

SIBIRIAN BRANCH OF RUSSIAN ACADEMY OF SCIENCE

SCIENTIFIC INSTITUTE OF CLINICAL AND EXPERIMENTAL LYMPHOLOGY

SIBIRIAN BRANCH OF MEDICAL SCIENCES

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GENERAL INFORMATION

VENUE

Novosibirsk, House of Scientists SB RAS, Music Hall, 2nd floor

(23, Morskoy prospect, Novosibirsk)

REGISTRATION

Shedule

August, 29 8.30 - 10.00 (House of Scientists SB RAS, Main entrance, 1st floor)

August, 30 8.00 – 9.00 (House of Scientists SB RAS, Small hall zone, 2nd floor)

August, 31 8.30 – 9.00 (House of Scientists SB RAS, Small hall zone, 2nd floor)

POSTER PRESENTATIONS

The poster presentations are held in the Small hall zone, 2nd floor

Placing posters:

August, 30 8.00 – 9.00

Removal of posters:

August, 31 15.00 – 16.00

LANGUSGES

The Symposium is held in English.

Tuesday, 30 August 2016

Systems Biology and Biomedicine

- 09.00-09.10** **Opening remarks**
V.I. Konenkov. Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia
- 09.10-10.50** ***Cell Technology and Regenerative Medicine***
Chairs: V.I. Konenkov
E.R. Chernych
- 09.10-09.30 **Migration of bone marrow cells: research technology**
A.F. Poveshchenko, L.A. Shundrin, P.A. Avrorov, A.O. Solovieva, T.V. Miller, K.E. Zubareva, O.V. Poveshchenko, V.I. Konenkov. Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia
- 09.30-09.45 **Study of motility of osteogenic cells in tissue engineering protocols**
N.M. Astakhova, S.V. Nikolaev, K.E. Orishchenko³, A.V. Korel¹, U.S. Zubairova³, I.A. Kirilova. Institute of Traumatology and Orthopedics Y.L. Tsivyan; ²Innovative Medical Technology (TechnoPark), Novosibirsk, Russia; Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia
- 09.45-10.05 **Approaches to personalized cell therapy for ischemic diseases**
O.V. Poveshchenko, Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia
- 10.05-10.20 **Clinical efficacy of biomedical cellular products in experimental bowel inflammation disease**
A.P. Lykov, N.A. Bondarenko, M.A. Surovtseva, I.I. Kim, N.P. Bgatova, O.V. Poveshchenko. Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia
- 10.20-10.35 **Strategies for maturation and antigen loading of dendritic cells for anti-cancer immunotherapy**
Zh.K. Nazarkina^{1,2}, A. Zajakina³, P.P. Laktionov^{1,2}. ¹Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia; ²Scientific Research Institute for Circulatory Pathology named after Academician E.N. Meshalkin, Novosibirsk, Russia; ³Latvian Biomedical Research and Study Centre, Riga, Latvia
- 10.35-10.50 **Discussion**
- 10.50-11.10** ***Coffee-break***

- 11.10-13.00** ***Translational Medicine: from Animal Models to Clinic***
Chairs: M.P. Moshkin
A.E. Akulov
- 11.10-11.30 **Genetic diversity of laboratory animals in translational research**
E.L. Zajalov, Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia
- 11.30-11.45 **Effects of the complex of melatonin, aluminium oxide and polymethylsiloxane on the liver structure in type 2 diabetic mice**
S.V. Michurina¹, I.Yu. Ischenko¹, V.V. Klimontov¹, S.A. Archipov¹, M.A. Cherepanova¹, L.N. Rachkovskaya¹, N.E. Myakina¹, E.L. Zavyalov², V.I. Kononkov¹, Yu.I. Borodin¹, M.A. Korolev¹. ¹Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia; ²Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia
- 11.45-12.05 **Brain metabolites under deficiency of the available energy**
A.E. Akulov¹, D.A. Tur², R.G. Gulevich¹, E.D. Petrovskiy^{1,3}, M.P. Moshkin¹. ¹Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia, ²Novosibirsk State University, Novosibirsk, Russia, ³International Tomography Center SB RAS, Novosibirsk, Russia
- 12.05-12.20 **Biological effects of lithium nanoparticles**
N.P. Bgatova, Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia
- 12.20-12.35 **Theranostic nanoplatfoms for simultaneous cancer imaging and therapy: Multifunctional nanoassemblies of human serum albumin and therapeutic nucleotides**
T.S. Godovikova^{1,4}, A.E. Akulov², V.A. Lisitskiy¹, A.S. Chubarov¹, N.M. Antonova¹, O.D. Zakharova¹, I.V. Koptug³, T.V. Popova, V.I. Kaledin², I.A. Razumov², E.L. Zavjalov², M.P. Moshkin², V.N. Silnikov¹. ¹Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia, ²Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia, ³International Tomography Center SB RAS, Novosibirsk, Russia, ⁴Novosibirsk State University, Novosibirsk, Russia
- 12.35-12.50 **Evaluation of Demyelination in the Cuprizone Model of Multiple Sclerosis: MRI and Histology Correlation**
M.Yu. Khodanovich¹, I.V. Sorokina², V.Yu. Glazacheva¹, N.M. Nemirovich-Danchenko¹, E.S. Pan¹, E.V. Krutenkova¹, Al.V. Romashchenko³, A.E. Akulov^{1,3}, T.G. Tolstikova², V.L. Yarnykh^{1,4}. ¹Tomsk State University, Tomsk, Russia, ²Institute of Organic Chemistry SB RAS, Novosibirsk, Russian, ³Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia, ⁴University of Washington, Seattle, USA
- 12.50-13.00 **Discussion**
- 13.00-14.00** ***Lunch***

- 14.00-15.50** ***Systems Biology in Human Health and Disease***
Chairs: V.A. Mordvinov
V.B. Loktev
- 14.00-14.20 **Viruses circulating in wild bird populations of Central and North-Eastern Eurasia: evaluation of the potential hazard to human**
A.M. Shestopalov, Scientific Institute of Clinical and Experimental Medicine, Novosibirsk, Russia
- 14.20-14.40 **New and emerging viral infections. Flaviviruses and Zika virus**
V.B. Loktev, Vector, Novosibirsk, Russia
- 14.40-15.00 **Molecular mechanisms of opisthorchiasis pathogenesis: the relationships of *Opisthorchis felinus* with host's DNA**
M.Y. Pakharukova¹, G.A. Maksimova¹, J.M. Correia da Costa², N. Vale², V.A. Mordvinov^{1,3}. ¹Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia
²Center for the Study Animal Science, ICETA, University of Porto, Porto, Portugal
³Institute of Molecular Biology and Biophysics, Novosibirsk, Russia
- 15.00-15.20 **Experimental model of opisthorchiasis as a tool for biomedical researches**
D.F. Avgustinovich. Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia
- 15.20-15.40 **Founder effect in Siberian indigenous populations through the prism of hereditary deafness**
O.L. Posukh^{1,2}, M.S. Bady-Khoo³, M.V. Zytsar^{1,2}, V.Yu. Mikhalskaia^{1,2}, N.A. Barashkov^{4,5}, I.V. Morozov^{2,6}, A.A. Bondar⁶. ¹Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ²Novosibirsk State University, Novosibirsk, Russia; ³Perinatal Center of the Tuva Republic, Kyzyl, Russia; ⁴Laboratory of Molecular Genetics, Yakut Scientific Centre of Complex Medical Problems, Yakutsk, Russia; ⁵Laboratory of Molecular Biology, M.K. Ammosov North-Eastern Federal University, Yakutsk, Russia; ⁶Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia
- 15.40-15.50 **Discussion**
- 15.50-16.10** ***Coffee-break***
- 16.10-18.00** ***Personalized Medicine: New Biomarkers and Molecular Targets***
Chairs: V.V. Lyakhovich
S.V. Sennikov
- 16.10-16.25 **From pharmacogenetics to modern pharmacotherapy**
V.A. Vavilin, V.V. Lyakhovich. Institute of Molecular Biology and Biophysics,

- Novosibirsk, Russia
- 16.25-16.40 **Modern biomarkers of coronary atherosclerosis and its complications**
Ju.I. Ragino, E.V. Kashtanova, Ya.V. Polonskaya. Institute of Internal and Preventive Medicine, Novosibirsk, Russia
- 16.40-16.55 **Inverse changes in serum concentrations of inflammatory and angiogenic growth factors in patients with type 2 diabetes**
V.V. Klimontov, D.M. Bulumbaeva, N.V. Tyan, N.B. Orlov, A.P. Lykov, V.I. Konenkov. Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia
- 16.55-17.10 **Serological markers in rheumatoid arthritis: circulating DNA and autoreactive antibodies**
E. Rykova^{1,2}, A. Sizikov³, D. Roggenbuck⁴, O. Antonenko⁵, L. Bryzgalov⁶, E. Morozkin^{1,7}, V. Vlasov¹, P. Laktionov^{1,7}, V. Kozlov³. ¹Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia; ²Novosibirsk State Technical University, Novosibirsk, Russia; ³Research Institute of Fundamental and Clinical Immunology, Novosibirsk, Russia; ⁴Brandenburg Technical University, Berlin, Germany; ⁵Institute of Molecular and Cellular Biology SB RAS, Novosibirsk, Russia; ⁶Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ⁷Academician E.N. Meshalkin Novosibirsk Research Institute of Circulation Pathology, Novosibirsk, Russia
- 17.10-17.25 **Natural bispecific antibodies: new biochemical markers of autoimmune diseases**
S.E. Sedykh, V.V. Printz, V.N. Buneva, G.A. Nevinsky. Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk State University, Novosibirsk, Russia
- 17.25-17.40 **Molecular basis for targeted therapy of autoimmune diseases**
M.A. Korolev. Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia
- 17.40-17.55 **Leukocyte telomere length as a marker of aging and a risk factor for the development of socially significant diseases in Siberia**
V.N. Maximov. Institute of Internal and Preventive Medicine, Novosibirsk, Russia
- 17.55-18.00 **Discussion**

Wednesday, 31 August 2016

Personalized Medicine: from Basic Science to Clinic

- 09.00-10.50** ***Genomic Technology for Personalized Medicine***
Chairs: V.P. Puzyrev
Y.S. Aulchenko
- 09.00-09.40 **Genome-wide association studies of complex human traits: history and perspectives**
Y.S. Aulchenko, Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia;
Novosibirsk State University, Novosibirsk, Russia
- 09.40-09.55 **Candidate SNP markers of aggressiveness-related complications and comorbidities of hereditary diseases predicted by a significant alteration in the affinity of TATA-binding protein for human gene promoters**
M.P. Ponomarenko^{1,2}, D.A. Rasskazov¹, E.B. Sharypova¹, I.V. Chadaeva¹, P.M. Ponomarenko³, L.K. Savinkova¹, N.A. Kolchanov^{1,2}. ¹Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ²Novosibirsk State University, Novosibirsk, Russia; ³Children's Hospital Los Angeles, University of Southern California, USA
- 09.55-10.10 **Preimplanation genetic screening using NGS**
I.S. Mukosey *, E.S. Shubina, A.N. Ekimov, T.O. Kochetkova, N.V. Aleksandrova, T.A. Kodyleva, N.P. Makarova, E.V. Kulakova, L.A. Levkov, D.Yu. Trofimov, G.T. Sukhikh. Research Center for Obstetrics, Gynecology and Perinatology, Moscow
- 10.10-10.25 **GENEQUERY: globally connected networks of GEO transcriptional profiles show hypothesis generation potential and reveal that tocopherols rescue TREM2-associated microglial dysfunction**
A.V. Predeus^{1,2*}, T. Ulland¹, Y. Wang¹, V. Lampropoulou¹, W. Song¹, I. Arbuзов³, F. Towfic⁴, S. Gilfilan¹, E. Loginicheva¹, B.T. Edelson¹, B. Zeskind⁴, M. Colonna¹, M.N. Artyomov¹. ¹Department of Pathology & Immunology, Washington University School of Medicine, St. Louis, MO, USA; ²Bioinformatics institute, Saint Petersburg, Russia; ³ITMO University, Saint Petersburg, Russia; ⁴Immuneering Corporation, Cambridge, MA, USA
- 10.25-10.40 **KATIS: integrative information system for complimentary medicine**
R. Hofestädt, V. Ogultarhan, A. Shoshi. University Bielefeld, AG Bioinformatics and Medical Informatics, Bielefeld, Germany
- 10.40-10.50 **Discussion**
- 10.50-11.10** ***Coffee-break***

- 11.10-13.00** ***Genotyping Precision Medicine***
Chairs: M.I. Voevoda
A.N. Tulpakov
- 11.10-11.40 **Monogenic forms of diabetes**
A.N. Tulpakov, Endocrine Research Center, Moscow, Russia
- 11.40-11.55 **Genetic characteristics of different subtypes of maturity-onset diabetes of the young (MODY) in Novosibirsk**
O.D. Rymar, A.K. Ovsyannikova, E.V. Shakhtshneider, E.N. Voropaeva, M.I. Voevoda. Institute of Internal and Preventive Medicine, Novosibirsk, Russia
- 11.55-12.10 **Hereditary spastic paraplegias in Sudan: relative frequencies according to the mutated gene and identification of the second SPG57 mutation affecting TFG oligomerization**
A.K.M. Ahmed¹, I.N. Mohammed¹, A.A. Ahmed Hamed¹, M.A. Elseed¹, A. Johnson⁴, M. Mairey^{2,3}, H.S.A.Mohamed^{5,6}, M.N. Idris^{1,6}, M.A.M. Salih⁷, S.M. El-sadig^{1,8}, M.E. Koko¹, A.Y.O. Mohamed⁹, Laure Raymond^{2,3,15}, M. Coutelier^{2,3}, F. Darios³, R.A. Siddig¹⁰, L.E.O Elsayed^{1,2,3}, A.M.A. Babai¹, H.M.O. Malik¹, Z.M.B. Mohammed¹, E.O.E. Mohamed¹, H.B. Eltahir¹¹, N.A. Magboul¹², E.E. Bushara¹, A. Elnour¹³, S.M. Abdel Rahim¹², A. Alattaya¹⁴, M.I. Elbashir¹, M.E. Ibrahim¹⁵, A. Durr^{3,16}, A. Audhya⁴, A. Brice^{3,16}, A.E. Ahmed^{1,16}, G. Stevanin^{2,3,16} Faculty of Medicine, University of Khartoum, Khartoum, Sudan, 2Ecole Pratique des Hautes Etudes, Pitié-Salpêtrière Hospital, ICM, F-75013 Paris, France, 3 Inserm U1127, CNRS UMR7225, Sorbonne Universités, UPMC Univ Paris 06, UMR_S1127, Institut du Cerveau et de la Moelle épinière, F-75013, Paris, France, 4Department of Biomolecular Chemistry, University of Wisconsin-Madison School of Medicine and Public Health, 440 Henry Mall, Madison, WI, 53706, USA, 5 Alnelen Medical Center, Khartoum, Sudan, 6 Sudan Medical Council, Neurology, Sudan, 7Division of Pediatric Neurology, Department of Pediatrics, College of Medicine, King Saud University, Riyadh, Saudi Arabia, 8Department of Neurology, Soba University Hospital, Khartoum, Sudan, 9 Department of Biochemistry, Faculty of Medicine, National University, Khartoum, Sudan, 10Faculty of Science, University of Elneelen, Khartoum,Sudan, 11Department of Biochemistry, Faculty of Medicine, University of El Imam EL Mahdi, Kosti, Sudan, 12Department of Radiology, Alamal National Hospital, Khartoum, Sudan, 13Department of Radiology, Ribat University Hospital, 14 Antalya Medical Centre, Khartoum, Sudan, 15 Department of Molecular Biology, Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan, 16 APHP, Department of genetics, Pitié-Salpêtrière Hospital, 75013 Paris, France
- 12.10-12.25 **Association of RS505151 in PCSK9 gene with lipid profile in Russian population**
K.S. Astrakova, E.V. Shakhtshneider, D.E. Ivanoshchuk, Yu.I. Ragino, M.I. Voevoda. Institute of Internal and Preventive Medicine, Novosibirsk, Russia
- 12.25-12.40 **Commonability of the combinations of polymorphic regulatory sites in the**

cytokine genes in pathogenetically diverse diseases in women

A.V. Shevchenko, V.F. Prokof'ev, V.I. Kononov. Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia

- 12.40-12.55 **Techniques of stochastic modeling and inhomogeneous sequential pattern recognition procedure in prediction of polygenic disease**
V.F. Prokof'ev, A.V. Shevchenko, M.A. Korolev, V.I. Kononov. Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia
- 12.55-13.00 **Discussion**
- 13.00-14.00 Lunch**
- 14.00-15.50 Clinical Genomics and Epigenetics**
Chairs: T.I. Merculova
M.A. Zenkova
- 14.00-14.15 **Functional analysis of mutations revealed by NGS diagnostics**
M.Yu. Skoblov^{1,2,7}, N.V. Zernov¹, A.V. Marakhonov^{1,2}, Y. Shimomura⁴, F.A. Konovalov^{1,3}, A.V. Abrukova⁵, A.Yu. Filatova¹, T.A. Vasilyeva¹, R.A. Zinchenko^{1,6,7}.
¹Research Centre for Medical Genetics, Moscow, Russia; ²The Moscow Institute of Physics and Technology, Dolgoprudny, Moscow Region, Russia; ³Regenerative and Genetic Medical Center of the Human Stem Cells Institute, Moscow, Russia; ⁴Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan; ⁵Ministry of Health and Social Development of Chuvash Republic, Presidential Perinatal Center, Chuvash Republic, Cheboksary, Russia; ⁶Pirogov Russian National Research Medical University, Moscow, Russia; ⁷Moscow State University of Medicine and Dentistry, Moscow, Russia
- 14.15-14.30 **Mutations spectra of mayor oncogenes in patients with multiple primary neoplasia**
G.V. Vasiliev¹, A.V. Savkova², A.V. Gerasimov³. ¹Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ²Centre for Postgraduate Medical Education, Novosibirsk State University, Novosibirsk, Russia; ³Novosibirsk Regional Clinical Oncology Hospital, Novosibirsk, Russia
- 14.30-14.45 **Circulating DNA as a source of novel type of cancer biomarkers**
V. Mileyko^{1,2}, M. Ivanov¹, E. Morozkin², A. Baranova^{1,3,4}. ¹ATLAS Biomed Group, Moscow, Russia; ²Institute of Chemical Biology and Fundamental Medicine, Novosibirsk, Russia; ³Federal State Budgetary Institution "Research Centre for Medical Genetics", Moscow, Russia; ⁴School of Systems Biology, George Mason University, Fairfax, VA USA
- 14.45-15.00 **Circulating microRNA dynamics in lung cancer patients during therapy**
A. Ponomaryova^{1,3}, E. Rykova^{2,4}, N. Cherdyntseva^{1,5}, E. Morozkin^{2,6}, I. Zaporozhchenko², T. Skvortsova², A. Dobrodeev¹, A. Zav'yalov¹, S. Tuzikov¹, V. Vlasov², P. Laktionov^{2,6} ¹Tomsk Cancer Research Institute, Tomsk, Russia;

²Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia; ³National Research Tomsk Polytechnic University, Tomsk, Russia; ⁴Novosibirsk State Technical University, Novosibirsk, Russia; ⁵National Research Tomsk State University, Tomsk, Russia; ⁶Academician E.N. Meshalkin Novosibirsk Research Institute of Circulation Pathology, Novosibirsk, Russia

- 15.00-15.15 **Somatic DNA methylation landscape of coronary artery disease patients**
M.S. Nazarenko¹, A.V. Markov¹, A.A. Sleptsov¹, O.L. Barbarash², V.P. Puzyrev¹
¹Research Institute of Medical Genetics, Tomsk, Russia; ²Research Institute for Complex Issues of Cardiovascular Diseases, Kemerovo, Russia
- 15.15-15.30 **Features of miRNA interaction with mRNA genes in coronary artery disease**
A.T. Ivashchenko, R.E. Niyazova, S.A. Atambayeva, A.Y. Pyrkova. Al-Farabi Kazakh National University, Almaty, Kazakhstan
- 15.30-15.45 **Epigenomic changes in postmortem brains of human alcoholics**
I. Ponomarev. Waggoner Center for Alcohol and Addiction Research, The University of Texas, Austin, Texas, USA
- 15.45-15.50 Discussion**
- 15.50-16.10 Coffee-break**
- 16.10-17.00 Discussion and closing remarks**

POSTER SESSION

Tuesday, 30 August 2016 - Wednesday, 31 August 2016

1. Bagina U.S., Shchegoleva L.V., Volkova T.O. THE USE OF DISCRIMINANT ANALYSIS AND ARTIFICIAL NEURONAL NETWORK IN BREAST CANCER DETECTION. Petrozavodsk State University, Petrozavodsk, Russia
2. Baranova S.V., Buneva V.N., Nevinsky G.A. ANTIBODIES-PROTEASES AS A NEW MARKER FOR DIAGNOSTICS OF HIV INFECTION. Institute of Chemical Biology and Fundamental Medicine, Siberian Division of Russian Academy of Sciences, Novosibirsk, Russia
3. Bgatova N.P., Kulikova I.S., Kachesov I.V., Chepko S.A., Isakova N.B., Borodin Yu.I., Konenkov V.I. PROGNOSTIC SIGNIFICANCE OF TUMOR-ASSOCIATED LYMPHANGIOGENESIS IN LOWER LIP SQUAMOUS CELL CARCINOMA. Scientific Institute of Clinical and Experimental Lymphology, Novosibirsk, Russia; Novosibirsk Regional Oncology Center, Russia
4. Chernonosova V.S.^{1,2}, Gao Y.³, Gostev A.A.², Karpenko A.A.², Laktionov P.P.^{1,2} POLYURETHANE-BASED FIBER MATERIALS FOR TISSUE ENGINEERING: FABRICATION AND GENERAL PROPERTIES. ¹Institute of Chemical Biology and Fundamental Medicine, Novosibirsk, Russia; ²Meshalkin Novosibirsk State Research Institute of Circulation Pathology, Russia; ³Novosibirsk State University, Russia
5. Denisov E.V.^{1,2}, Gerashchenko T.S.^{1,2}, Tashireva L.A.¹, Skryabin N.A.^{2,3}, Buldakov M.A.^{1,2}, Zavyalova M.V.^{1,2}, Cherdyntseva N.V.^{1,2}, Perelmutter V.M.¹ INTRATUMOR MORPHOLOGICAL HETEROGENEITY IN BREAST CANCER: TOWARDS A PERSONALIZED PROGNOSIS AND THERAPY. ¹Tomsk Cancer Research Institute, Tomsk, Russia; ²Tomsk State University, Tomsk, Russia; ³Institute of Medical Genetics, Tomsk, Russia
6. Gainetdinov I.V.¹, Rykova E.Y.^{2,3}, Kapitskaya K.Y.¹, Ponomaryova A.A.^{4,5}, Cherdyntseva N.V.^{4,6}, Vlasov V.V.², Laktionov P.P.^{2,7}, Azhikina T.L.¹ «LIQUID BIOPSY» DEVELOPMENT IN LUNG CANCER: CIRCULATING LINE-1 RETROTRANSPOSONS HYPOMETHYLATION STUDY. ¹Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, RAS, Moscow, Russia; ²Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia; ³Novosibirsk State Technical University, Novosibirsk, Russia; ⁴Tomsk Cancer Research Institute, Tomsk, Russia; ⁵National Research Tomsk Polytechnic University, Tomsk, Russia; ⁶National Research Tomsk State University, Tomsk, Russia; ⁷Academician E.N. Meshalkin Novosibirsk Research Institute of Circulation Pathology, Novosibirsk, Russia
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