



7TH

SAINT PETERSBURG MEDICAL INNOVATION FORUM

MAY 14–16, 2024

PROGRAMME

7TH SAINT PETERSBURG MEDICAL INNOVATION FORUM

ORGANIZERS

Ministry of Health of the Russian Federation

Ministry of Science and Higher Education of the Russian Federation

Almazov National Medical Research Centre

Translational Medicine Cluster

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The 7th Saint Petersburg Medical Innovation Forum includes Almazov Youth Medical Forum 2024.

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TOPICS

- Information technology and AI in medicine
- Personalized medicine
- Microbial and antimicrobial therapy: state of the art and perspectives
- Controlling dangerous infections: biosafety and synthetic biology innovations
- Innovations in medicine: medications, novel instruments and devices
- Development and registration of innovative products in BRICS
- Improving cardiology care
- Modern technologies in cardiology and cardiac surgery
- Topical issues of experimental medicine
- Cardiac arrhythmias: from fundamentals to interventional treatment
- Robotic surgery: new trends and approaches in the treatment of patients with various diseases
- Drug therapy for cardiovascular disease
- Innovative approaches in metabolic and prescription imaging in oncology
- Challenging issues of hematologic oncology
- Genetics of polygenic diseases
- Trends in neuroscience and innovations in neurotechnology
- Public health and healthcare management
- Modern technologies for women's health – obstetrics, gynecology, reproductive medicine
- Topical issues of perinatology and pediatrics
- New approaches to studying rare, understudied and unknown diseases
- Autoimmune diseases: a new challenge to humanity
- Drug development and registration: GLP regulation
- Medical education innovations
- Bringing foreign youth to Russian science and education: opportunities and prospects

- Intellectual property: technology transfer in drug discovery and AI market

The scientific programme of the 7th Saint Petersburg Medical Innovation Forum and Almazov Youth Medical Forum 2024 features lectures, plenary sessions, scientific symposia, workshops, clinical case discussions, e-posters, training sessions for practitioners.

Official languages: Russian, English.

VENUE

- Almazov National Medical Research Centre, 2 Akkuratova street, 11 Akkuratova street, 21 Kolomyazhsky avenue, Saint Petersburg
- Solnechny Biomedical Training and Research Centre, Solnechnoe village, 6 Srednyaya street
- Polenov Neurosurgical Institute, 12 Mayakovskogo street, Saint Petersburg

LOCATION OF HALLS

Address	Halls
Almazov National Medical Research Centre, 2 Akkuratova street	Pavlov Hall, 3rd floor Korotkov Hall, 2nd floor Botkin Hall, 3rd floor Lang Hall, 20th floor Museum Hall, 6th floor Library Hall, 9th floor Filatov Hall, Perinatal Centre, 4th floor Peter's Assembly Hall 2nd floor
Institute of Medical Education, 21 Kolomyazhsky avenue	Mendeleev Hall Almazov Hall 3rd Floor Hall Small Hall Meeting Room Smart Room Simulation Centre
School, 11 Akkuratova street	Lecture room 5
Solnechnoe village, 6 Srednyaya street	Solnechny Biomedical Training and Research Centre, Solnechnoe hall
Polenov Neurosurgical Institute, 12 Mayakovskogo street	Molotkov Hall Polenov Hall Babchin Hall

Timings of Almazov Youth Medical Forum 2024:

May 11, 8:00–18:00

May 13, 8:00–18:00

May 15, 8:00–18:00

May 12, 8:00–18:00

May 14, 8:00–18:00

May 16, 8:00–15:00

Timings of the 7th Saint Petersburg Medical Innovation Forum:

May 14, 9:30–19:00

May 15, 9:30–19:00

May 16, 9:30–18:45

OFFICIAL EVENTS OF THE 7TH SAINT PETERSBURG MEDICAL INNOVATION FORUM

May 14, 11:30–15:30	Meeting of the RAS Council on Personalized Medicine	2 Akkuratova street, Congress Centre, Pavlov Hall
May 15, 11:30–13:30	Plenary session Opening Ceremony of the 7th Saint Petersburg Medical Innovation Forum	21 Kolomyazhsky avenue, Almazov Hall
May 16, 13:30–15:00	Awarding ceremony for winners of competitions and poster sessions Closing ceremony	2 Akkuratova street, Congress Centre, Pavlov Hall

SPECIAL EVENTS OF WORLD-CLASS RESEARCH CENTRE FOR PERSONALIZED MEDICINE

May 14, 2 Akkuratova street

Time	Hall	Event
9.30–11.00	Lang Hall	Symposium <i>Post-mastectomy syndrome – recent discoveries</i>
9.30–11.00	Online	International seminar <i>Current approaches to understanding pathological calcification (part 1)</i>
15.45–17.15	Lang Hall	International seminar <i>Molecular genetic markers and personalized approach to the diagnosis and treatment of neuroendocrine tumors of various sites</i>
15.45–17.15	Filatov Hall	International seminar <i>The latest technologies in the diagnosis and treatment of cervical diseases</i>
17.30–19.00	Botkin Hall	Symposium <i>Heritability analysis of polygenic diseases in the context of national biobanks</i>

May 15, 2 Akkuratova street

Time	Hall	Event
9.30–11.00	Library Hall	Symposium <i>Prospective methods for treating myeloproliferative neoplasms</i>
9.30–11.00	Filatov Hall	International symposium <i>The fetal and neonatal heart: implications for adult life</i>
9.30–11.00	Botkin Hall	International seminar <i>Methods for producing transgenic animals and using them in medicine (part 1)</i>
14.00–15.30	Botkin Hall	Symposium <i>Bioinformatics technologies for studying the heritability of polygenic diseases</i>
14.00–15.30	Online	Symposium <i>Innovative approaches in metabolic and receptor imaging in oncology</i>
15.45–17.15	Botkin Hall	Symposium <i>COVID-19, long COVID and the autoimmune response: is there a link?</i>
15.45–17.15	Online	International seminar <i>Current approaches to understanding pathological calcification (part 2)</i>
17.30–19.00	Filatov Hall	International seminar <i>Modern methods of fertility preservation for cancer patients</i>

May 16, 2 Akkuratova street

Time	Hall	Event
9.30–11.00	Lang Hall	International seminar <i>Methods for producing transgenic animals and using them in medicine (part 2)</i>
9.30–11.00	Museum Hall	Symposium <i>Adipose tissue plasticity and cardiometabolic health</i>
9.30–11.00	Online	Symposium

Time	Hall	Event
		<i>Molecular chaperones in the diagnosis and therapy of socially significant diseases</i>
9.30–11.00	Botkin Hall	Round table meeting <i>Molecular cardiology</i>
11.15–12.45	Botkin Hall	Symposium <i>Extracellular vesicles: huge perspectives for small objects</i>
11.15–12.45	Online	Symposium <i>Integrative nanotechnologies in personalized medicine</i>

EXHIBITION

An exhibition of medical equipment and pharmaceuticals will take place daily from 9.00 to 18.00 during the Forum. The expositions will be located on the 1st floor at 2 Akkuratova street and 21 Kolomyazhsky avenue.

The Healthcare Innovation Exhibition of the Translational Medicine Cluster will be held on May 15 from 9.00 to 18.00 at 21 Kolomyazhsky avenue.

REGISTRATION

The event is free to attend but pre-registration is required. There is no registration fee.

All registered participants will receive name badges at the registration desk for admission to all sessions and the exhibition.

During the Forum, onsite registration will take place daily from 8:30 to 16.00:

- 7th Saint Petersburg Medical Innovation Forum: Congress Centre, 2 Akkuratova street.
- Almazov Youth Medical Forum 2024: Institute of Medical Education, 21 Kolomyazhsky avenue.








Onsite Wi-Fi















Wi-Fi is available in all the Forum areas.

Wi-Fi name: nmrc-free

SCHEDULE

May 14, 2024

Time	2 Akkuratova street								ONLINE
	Pavlov Hall	Korotkov Hall	Botkin Hall	Lang Hall	Museum Hall	Library Hall	Filatov Hall (Perinatal Centre)	Peter's Assembly	
Registration (starts at 8.30)									
09.30-11.00	<p>Satellite symposium <i>Full course completed? The role of dual antiplatelet therapy in the second year and beyond after myocardial infarction</i> (sponsored by AstraZeneca)</p> 	<p>Satellite symposium <i>Current trends in the early diagnosis of rare diseases in children</i> (presentations sponsored by Pierre Fabre, Sanofi Russia)</p> 	<p>Symposium <i>Basic issues in cardiology</i> (presentation sponsored by Generium)</p> 	<p>Symposium <i>Post-mastectomy syndrome – recent discoveries</i></p>	<p>International symposium <i>Microbial and antimicrobial therapy: state of the art and prospects</i></p> 	<p>08:30 Poster session <i>Cardiology: non-coronary diseases</i></p> <p>10:00 Poster session <i>Surgery</i></p>	<p>Symposium <i>Forming the professional identity of a medical student</i></p> 	<p>Poster session <i>New technologies in pediatrics, microbiology, reproductive medicine and endocrinology</i></p> 	<p>International seminar <i>Current approaches to understanding pathological calcification (part 1)</i></p> 
11.00-11.30	Break								
11.30-13.30	Meeting of the RAS Council on Personalized Medicine (part 1) Staff training for personalized medicine: experience and prospects, Pavlov Hall live stream								
13.30-14.00	Break								
14.00-15.30	Meeting of the RAS Council on Personalized Medicine (part 2) New technologies in personalized medicine, Pavlov Hall live stream								
15.30-15.45	Break								

Time	2 Akkuratova street								ONLINE
	Pavlov Hall	Korotkov Hall	Botkin Hall	Lang Hall	Museum Hall	Library Hall	Filatov Hall (Perinatal Centre)	Peter's Assembly	
15.45-17.15	Meeting of the RAS Council on Personalized Medicine (part 3) <i>Basic research as a basis for personalized approaches in medicine</i> 	Satellite symposium <i>The burden of inflammatory bowel disease as a public health issue</i> (sponsored by Johnson & Johnson) 	Satellite symposium <i>Modern aspects of multidisciplinary approach in diagnosis and therapy of progressive Duchenne muscular dystrophy</i> (sponsored by Roche Moscow) 	International seminar Molecular genetic markers and personalized approach to the diagnosis and treatment of neuroendocrine tumors of various sites	Symposium <i>Using microorganisms to fight tumors</i>	Symposium <i>Trends in neuroscience and innovations in neurosurgery (part 1)</i> 	International seminar <i>The latest technologies in the diagnosis and treatment of cervical diseases</i> 	Poster session <i>Basic research in cardiology, oncology and neurology</i> 	Workshop <i>Endoscopic interventions in patients with advanced pancreaticobiliary cancer</i> 
17.15-17.30	Break								
17.30-19.00	Symposium <i>Laboratory diagnostics: big data analysis</i> 	Symposium <i>GLP rules in drug development and registration</i> 	Symposium <i>Heritability analysis of polygenic diseases in the context of national biobanks</i> 	Symposium <i>Fundamental aspects of rehabilitation: from clinical questions to solutions</i> 	Symposium <i>Changes in microbiota in various diseases and ways of correction</i>	Symposium <i>Basic research in neurosurgery (part 2)</i> 	Symposium <i>Infectious perinatology</i>	Session <i>Foreign universities' innovations in education and science</i> 	<i>International experience in medical and biomedical training</i> 

Sessions marked  will be live-streamed

MAY 14, 2024

11:30-13:30

Pavlov hall, 2 Akkuratova street || live stream

MEETING OF THE RAS COUNCIL ON PERSONALIZED MEDICINE (part 1)

Staff training for personalized medicine: experience and prospects

Chairs: Konradi A. (St. Petersburg) (St. Petersburg), Sychev D. (Moscow)

11:30-11:45 Opening remarks

11:45-12:00 **Sychev D., Mirzaev K.B. (Moscow)**

Continuing professional education as a tool for introducing pharmacogenetics and personalized therapy into practice

12:00- 12:15 **Shikh E., Anikin G. (Moscow)**

Specialist's and master's educational programs and training modules on personalized medicine

12:15-12:30 **Prirodova O., Sychev D. (Moscow)**

Personalized medicine for practitioners: continuing education opportunities

12:30-12:45 **Parmon E. (St. Petersburg)**

Experience in the implementation of student training in personalized medicine

12:45-13:30 Discussion of the framework recommendations of the RAS Council on Personalized Medicine for the inclusion of personalized medicine modules in the training of students, residents, doctors and health care executives

14:00-15:30

Pavlov hall, 2 Akkuratova street || live stream

MEETING OF THE RAS COUNCIL ON PERSONALIZED MEDICINE (part 2)

New technologies in personalized medicine

Chairs: Golukhova E., Drapkina O., Rumyantsev A. (Moscow)

14:00-14:15 **Golukhova E., Garmanov S., Darvish N., Bakuleva N., Salohedinova R. (Moscow)**

Personalized surgical approaches for the repair of combined lesions of the brachiocephalic arteries and aortic arch with a customized prefabricated multibranch graft based on the patient's anatomy

14:15-14:30 **Drapkina O. (Moscow)**

Current potential of genetic technologies in personalized prevention

14:30-14:45 **Rumyantsev A., Scherbina A., Kuzmenko N., Rodina Yu. (Moscow)**

Genetic immune defects as a basis for personalized autoimmune and inflammatory therapies

14:45-15:00 **Popov S., Boschenko A., Ryabov V. (Tomsk)**

Critical cardiology technologies at a federal research centre: where is personalization?

15:00-15:15 **Kudlai D. (Moscow)**

First autologous cell platforms for Russian healthcare

15:15-15:30 Discussion

15:45-17:15

Pavlov hall, 2 Akkuratova street || live stream

MEETING OF THE RAS COUNCIL ON PERSONALIZED MEDICINE (part 3)
Basic research as a basis for personalized approaches in medicine

- Chairs:** Lukyanov S. (Moscow), Shlyakhto E. (St. Petersburg)
- 15:45-16:00 **Kogan I., Bespalova O., Glotov A. (St. Petersburg)**
Biobanking as a promising tool for new technologies in reproductive medicine
- 16:00-16:15 **Klimenko A. (Moscow)**
Frontiers in the study of autoimmune and autoinflammatory diseases 2023: personalization trend
- 16:15-16:30 **Filipenko M. (Novosibirsk)**
Digital measurement of biomarkers as a logical step in developing and advancing diagnostic systems for personalized medicine
- 16:30-16:45 **Polonikov A. (Kursk)**
Cataloguing and potential use of genetic markers for multifactorial disease risk assessment for personalized medicine
- 16:45-16:55 **Tikunova N. (Novosibirsk)**
Experience of personalized phage therapy in the treatment of wound infections
- 16:55-17:05 **Richter V. (Novosibirsk)**
Anticancer drug based on vaccinia virus
- 17:05-17:15 **Shlyakhto E. (St. Petersburg)**
Closing remarks

17:30-19:00

Pavlov hall, 2 Akkuratova street || live stream

Symposium
LABORATORY DIAGNOSTICS: BIG DATA ANALYSIS

- Chairs:** Vavilova T., Sirotkina O., Ivanov A. (St. Petersburg), YANG Li-Ming (Harbin, China)
- 17:30-17:40 **Sirotkina O. (St. Petersburg)**
Synthetic biology as a modern trend in harmonizing basic and applied biomedical tasks using big data
- 17:40-17:50 **Osipov N., Vlasov V. (St. Petersburg)**
Potential of mathematical modelling in laboratory diagnostics
- 17:50-18:00 **Vavilova T. (St. Petersburg)**
Laboratory markers of coagulation activation and risk scores
- 18:00-18:10 **Startseva O., Zybina N. (St. Petersburg)**
Monitoring of low-molecular-weight heparin therapy using various laboratory methods
- 18:10-18:20 **YANG Li-Ming (Harbin, China)**
The mechanism of berberine inhibited SASP-related inflammation in foam cells
- 18:20-18:30 **Skibo I. (St. Petersburg)**
Comparing specific IgE results obtained by different technologies
- 18:30-18:40 **Dorofeikov V., Sheshurina T. (St. Petersburg)**
Modern laboratory diagnostic testing in professional and amateur sports
- 18:40-18:50 **Krobinets I. (St. Petersburg)**
Innovative trends in immunohematology
- 18:50-19:00 Discussion

17:30-19:00

Korotkov hall, 2 Akkuratova street || live stream

Symposium

GLP RULES IN DRUG DEVELOPMENT AND REGISTRATION

Chairs: Galagudza M., Vakhitova Yu., Li Xiao-Bo (Harbin, China)

- 17:30-17:45 **Syubaev R. (Moscow)**
Preclinical studies of drugs:
EAEU requirements and current changes in national legislation
- 17:45-18:00 **Popov N., Baranov M. (Tver)**
Mass spectrometry and high-performance liquid chromatography methods for preclinical study of biotransformation of leading compounds from the sydnonimine group
- 18:00-18:15 **Li Xiao-Bo (Harbin, China)**
Targeting ribosome biogenesis is a novel strategy to treat colorectal cancer
- 18:15-18:30 **Semivelichenko E., Grishina A. (St. Petersburg)**
The system of good laboratory practice in a preclinical testing centre
- 18:30-18:45 **Shustov E. (St. Petersburg)**
Modern approaches to pharmacological neuroprotection
- 18:45-19:00 Discussion

09:30-11:00

Museum hall, 2 Akkuratova street || live stream

Symposium

MICROBIAL AND ANTIMICROBIAL THERAPY: STATE OF THE ART AND PROSPECTS

Chairs: Shevchenko S. (St. Petersburg), Ling Hong (Harbin, China)

- 09:30-09:45 **Goncharov A. (St. Petersburg), Lavrinenko A. (Karaganda, Kazakhstan)**
Bioprospecting of bacteriophages in the XXI century
- 09:45-10:00 **Pchelin I., Azarov D. (St. Petersburg)**
Meta-analysis of spectral width of the phage lytic activity
- 10:00-10:15 **Ling Hong (Harbin, China)**
Declining prevalence of multidrug-resistant tuberculosis in Heilongjiang Province, China: 2013–2021 trend and after COVID-19 onset
- 10:15-10:25 **Mayorova I., Desheva Yu. (St. Petersburg)**
Associated vaccine based on recombinant A/H1N1pdm09 influenza virus expressing the *S. pneumoniae* fragment
- 10:25-10:35 **Desheva Yu. (St. Petersburg)**
Prototypes of broadly protective neuraminidase-based influenza vaccines
- 10:35-10:45 **Shamova O., Zharkova M., Sukhareva M. (St Petersburg)**
Antimicrobials peptides effective against antibiotic-resistant bacteria
- 10:45-10:55 **Spiridonova A., Afinogenova A. (St. Petersburg)**
Synergism of antimicrobial agents: prospects of clinical application
- 10:55-11:00 Discussion

09:30-11:00













Online hall, live stream



















International seminar
CURRENT APPROACHES TO UNDERSTANDING PATHOLOGICAL
CALCIFICATION (PART 1)

- Chairs: **Malashicheva A.** (St. Petersburg), **Kang Xu** (Wuhan, China)
- 09:30-09:45 **Kang Xu (Wuhan, China)**
Study of andrographolide to alleviate aortic valve calcification
- 09:45-10:00 **Kutikhin A. (Kemerovo)**
Histological and electron microscopic approaches to three-dimensional imaging of pathological calcification of circulatory system elements
- 10:00-10:15 **Tanyansky D. (St. Petersburg)**
Low-density lipoprotein transport across endothelial cells: process regulation and possible activation mechanisms in atherogenesis
- 10:15-10:30 **Dokshin P. (St. Petersburg)**
Gender-specific features of the transcriptomic landscape in aortic valve interstitial cells during pathological calcification
- 10:30-10:50 **Malashicheva A. (St. Petersburg)**
Critical role of Notch signaling pathway in osteogenic differentiation as a way to control pathological calcification and osteogenesis
- 10:50-11:00 Discussion

SCHEDULE

May 15, 2024

Time	2 Akkuratova street								ONLINE
	Pavlov Hall	Korotkov Hall	Botkin Hall	Lang Hall	Museum Hall	Library Hall	Filatov Hall	Peter's Assembly	
	Pavlov Hall (registration starts at 8-30)								
9.30-11.00	Panel discussion <i>Prospects of generative artificial intelligence in healthcare</i> 	Symposium <i>Preclinical trials in the Russian Federation: opportunities and prospects</i> 	International seminar <i>Methods for producing transgenic animals and using them in medicine (part 1)</i> 	2nd All-Russian Competition in Neurology	Satellite symposium <i>New opportunities in thrombosis prevention and cardiovascular disease treatment</i> (sponsored by Organica) 	Symposium <i>Prospective methods for treating myeloproliferative neoplasms</i> (presentations sponsored by Novartis Pharma) 	International symposium <i>The fetal and neonatal heart: implications for adult life</i> 	Symposium <i>Innovative technologies in the teaching of preclinical disciplines in medical universities (part 1)</i> 	Satellite symposium <i>Forxiga for chronic heart failure: innovations and new therapeutic approaches in 2024</i> (sponsored by AstraZeneca)
11.00-11.30	Break								
11.30-13.30	PLENARY SESSION – OPENING CEREMONY OF THE 7TH SAINT PETERSBURG MEDICAL INNOVATION FORUM 21 Kolomyazhsky avenue, Almazov Hall								
13.30 - 14.00	Break								
14.00-15.30	International session <i>Innovations and new development vectors for the export of medical services to improve health, longevity and quality of life</i> (presentation sponsored by Peterburgskie apteki) 	Satellite symposium <i>Radiation and radionuclide imaging in the perioperative management and diagnosis of complications in patients with arrhythmias</i> (sponsored by GE Healthcare) 	Symposium <i>Bioinformatics technologies for studying the heritability of polygenic diseases</i> 	2nd All-Russian Competition in Neurology with international participation	Round table meeting <i>Tools for attracting foreign youth to Russian science and education</i> 	Symposium <i>Endovascular aortic surgery: exploring advanced technologies and looking beyond</i>	Symposium <i>Preconceptional genomic technologies: application in practice and perspectives</i>	Symposium <i>Innovative technologies in the teaching of preclinical disciplines in medical universities (part 2)</i> 	WCRC symposium <i>Innovative approaches in metabolic and receptor imaging in oncology</i>
15.30-15.45	Break								

Time	2 Akkuratova street								ONLINE
	Pavlov Hall	Korotkov Hall	Botkin Hall	Lang Hall	Museum Hall	Library Hall	Filatov Hall	Peter's Assembly	
15.45 - 17.15	Workshop <i>Medical and health tourism: organizing culturally sensitive interactions</i> 	Symposium <i>Progress of neuromodulation in cardiology</i> (presentation sponsored by Cardiomedics) 	Symposium <i>COVID-19, long COVID and the autoimmune response: is there a link?</i> 	2nd All-Russian Competition in Neurology with international participation 	Training session <i>Innovative technologies: from idea to implementation</i> 	Round table meeting <i>Clinical application of innovative technology for the synthesis of nitric oxide from atmospheric air</i> 	Symposium <i>Modern technologies in the obstetrical practice</i> 	Symposium <i>Innovations in medical education</i> 	International seminar <i>Current approaches to understanding pathological calcification (part 2)</i> 
17.15 - 17.30	Break								
17.30 - 19.00	Symposium <i>Robotic surgery: new trends and approaches in the treatment of patients with various diseases</i> 	Training session <i>Problems and challenges of modern arrhythmology</i> 	Symposium <i>Topical issues of cardiology</i> 	Round table meeting <i>Vocational guidance of schoolchildren and pre-university training of medical students</i> 	Round table meeting <i>Intellectual property: technology transfer in the pharmaceutical and AI markets</i> 	Symposium <i>Topical issues of modern therapy of acute leukemia</i> (presentations sponsored by Pharmstandard, Alpharma) 	International symposium <i>Modern methods of fertility preservation in cancer patients</i> 	Round table meeting <i>World outlook and methodological aspects of teaching humanities in a medical University</i> 	Joint symposium of Almazov Centre and Kazakh Russian Medical University (KRMU) 

Sessions marked  will be live-streamed

MAY 15, 2024

11:30-13:30

Almazov hall, 21 Kolomyazhsky avenue || live stream

**PLENARY SESSION
OPENING CEREMONY OF THE 7TH SAINT PETERSBURG MEDICAL
INNOVATION FORUM**

Chairs: Demidov A., Kryukov E., Maksimov A., Rudskoy A., Shlyakhto E., Ergashev O. (St. Petersburg)

11:30-12:10 **Welcome addresses**

12:10-12:30 **Shlyakhto E. (St. Petersburg)**

Medicine of the future – medicine of knowledge, data and technologies

12:30-12:50 **Lukyanov S. (Moscow)**

Sectoral suppression of T-cell immunity – a new strategy for treatment of autoimmune diseases

12:50-13:10 **Sychev D. (Moscow)**

Pharmacogenetics: a universal approach to personalization of drug use

13:10-13:30 **Li Yue (Harbin, China)**

History of development and current issues in cardio-oncology

14:00-15:30

Pavlov hall, 2 Akkuratova street|| live stream

**INTERNATIONAL SESSION
INNOVATIONS AND NEW DEVELOPMENT VECTORS FOR THE EXPORT OF
MEDICAL SERVICES TO IMPROVE HEALTH, LONGEVITY AND QUALITY OF
LIFE**

Chairs: Tereshin A., Kuzenskaya Y. (St. Petersburg)

14:00-14:05 **Opening remarks**

14:05-14:20 **Dr. Viswanathan Mohan (India)**

Precision diabetes care becoming a reality

14:20-14:30 **Belova S. (St. Petersburg)**

St. Petersburg as a centre for development of medical and health tourism

14:30-14:40 **Grigorieva N. (St. Petersburg)**

Intellectual potential of society and innovations in medicine: ways of development as a system of strategic knowledge and skills

14:40-14:55 **Dorosh Zh. (Moscow)**

Application of clinical guidelines in outpatient and inpatient settings: automation possibilities

14:55-15:10 **Antonyuk O. (St. Petersburg)**

Relevance of pharmaceutical compounding and its role in modern drug supply (*sponsored by Peterburgskie apteki*)

15:10-15:20 **Vitkovskaya E. (St. Petersburg)**

Cardiological Saint Petersburg

15:20-15:30 **Komlichenko E. (St. Petersburg)**

Prospects for the development of the oncology service at Almazov Centre

15:45-17:15

Pavlov hall, 2 Akkuratova street|| live stream

INTERNATIONAL SESSION - EXPORT OF MEDICAL SERVICES

Workshop

MEDICAL AND HEALTH TOURISM: ORGANIZING CULTURALLY SENSITIVE INTERACTIONS

Chairs: Tereshin A., Kuzenskaya Yu., Belova S. (St. Petersburg)

15:45-15:55 **Guzalov P. (St. Petersburg)**

Health resort facilities of St. Petersburg

15:55-16:05 **Abramov K. (St. Petersburg)**

Possibilities of high-tech neurosurgical medical care at Almazov Centre

16:05-16:15 **Morozova M. (St. Petersburg)**

Services and prospects for sustainable international inbound tourist flow to St. Petersburg in the context of medical tourism development.

16:15-16:25 **Voschinchuk A. (Belarus)**

Characteristics of health resort personnel training in the Republic of Belarus

16:25-16:35 **Tadzhieva U. (Uzbekistan)**

Priority areas of cooperation between Russia and Uzbekistan in the field of medical and health tourism

16:35-16:45 **Hasanov E. (Azerbaijan)**

Health resort facilities of Azerbaijan

16:45-16:55 **Asrorova E. (Tajikistan)**

Health resort facilities of Tajikistan

16:55-17:05 **Rajiv Taneja (India)**

Development of medical tourism between Russia and India

17:05-17:15 **Mert Akkok (Turkey)**

Public-private partnerships in medical tourism

14:00-15:30

Library hall, 2 Akkuratova street / live stream

Symposium

ENDOASCULAR AORTIC SURGERY: EXPLORING ADVANCED TECHNOLOGIES AND LOOKING BEYOND

Chairs: Chang Shu (Beijing, China), Imaev T. (Moscow), Chernyavsky M. (St. Petersburg)

14:00-14:10 **Chang Shu (Beijing, China)**

Endovascular procedures in patients with aortic arch pathology

14:10-14:20 **Khafizov T. (Ufa)**

Fenestrated stent grafting for juxtarenal aneurysms

14:20-14:30 **Imaev T. (Moscow)**

Endovascular treatment of aortic arch disease: a single centre experience

14:30-14:40 **Chernyavsky M. (St. Petersburg)**

Treatment of complex aortic arch and thoracoabdominal aortic aneurysms: new solutions in the era of endovascular technology

14:40-14:50 **Polyakov R. (Moscow)**

Branched endovascular technique for the treatment of thoracoabdominal aortic aneurysms

14:50-15:00 **Krestyaninov O. (Novosibirsk)**

Robot-assisted procedures for aorto-iliac segment

15:00-15:30

**Live surgery broadcast from the hybrid OR of Almazov Centre:
Endovascular repair of the aortic arch with intraoperative stent-graft fenestration**

15.45-17.15

Online hall | **live stream**











International seminar
CURRENT APPROACHES TO UNDERSTANDING PATHOLOGICAL
CALCIFICATION (PART 2)

Chair: Malashicheva A. (St. Petersburg)

- 15:45-15:55 **Perepletchikova D. (St. Petersburg)**
Cellular and molecular mechanisms of endothelial cell effects on osteogenic differentiation
- 15:55-16:05 **Basovich L. (St. Petersburg)**
Effect of suppression of Notch signaling pathway components in endothelial cells on osteogenic differentiation of MSCs
- 16:05-16:15 **Kachanova O. (St. Petersburg)**
Ex vivo model of aortic valve calcification using human valves
- 16:15-16:25 **Nyrov V. (St. Petersburg)**
Effect of regulation of estrogen-related receptor alpha expression on osteogenic differentiation in cell cultures
- 16:25-16:35 **Smirnova D. (St. Petersburg)**
Role of KLF2/KLF4 mechanotransduction factors in maintaining functional properties of endothelial cells
- 16:35-16:45 **Boyarskaya N. (St. Petersburg)**
Pinostrobin – a potential inhibitor of aortic valve calcification
- 16:45-16:55 **Gromova E. (St. Petersburg)**
Mechanisms of Runx2 transcription factor regulation at early stages of osteogenic cell differentiation
- 16:55-17:05 **Panshin D. (St. Petersburg)**
Differential expression of profibrotic markers in response to variation in RUNX2 and NOTCH activity in human cells
- 17:05-17:15 Discussion

SCHEDULE

May 16, 2024

Time	2 Akkuratova street								
	Pavlov Hall	Korotkov Hall	Botkin Hall	Lang Hall	Museum Hall	Library Hall	Filatov Hall	Peter's Assembly	ONLINE
9.30-11.00	Final stage of the research paper competition	6 th All-Russian Competition in Cardiology with international participation	Round table meeting <i>Molecular cardiology</i> 	International seminar <i>Methods for producing transgenic animals and using them in medicine (part 2)</i> 	Symposium <i>Adipose tissue plasticity and cardiometabolic health</i> 	Training session <i>CT and MRI of the heart and great vessels</i>	Symposium <i>Gynecology at the intersection of specialties</i>	Round table meeting <i>Interactions between large clinics, universities and organizations in healthcare (part 2)</i> 	Symposium <i>Integrative nanotechnologies in personalized medicine</i> 
11.00-11.15	Break								
11.15-12.45	Final stage of the research paper competition	6 th All-Russian Competition in Cardiology with international participation	Symposium <i>Extracellular vesicles: huge perspectives for small objects</i> 	Symposium <i>Opportunities of Russian science and industry, current import substitution projects in cardiovascular and endovascular surgery</i> 	Symposium <i>Autoimmune diseases: from theory to practice</i> 	Training session <i>Fundamentals of CT and MRI safety in cardiac imaging</i>	Symposium <i>Intrauterine surgery</i>	Strategy session <i>Interactions between large clinics, universities and organizations in healthcare (part 3)</i> 	Symposium <i>Molecular chaperones in the diagnosis and therapy of socially significant diseases</i> 
12.45-13.30	Break								
	TOUR OF THE CENTRE FACILITIES FOR PARTICIPANTS OF ALMAZOV YOUTH MEDICAL FORUM								
13.30-15.00	AWARDING CEREMONY FOR WINNERS OF COMPETITIONS AND POSTER SESSIONS, Congress Centre, Pavlov Hall								
15.00-15.30	CLOSING CEREMONY								

Sessions marked  will be live-streamed

MAY 16, 2024

09:30-11:00

Botkin hall, 2 Akkuratova street || live stream

**Round table meeting
MOLECULAR CARDIOLOGY**

- Chairs:** **Kostareva A., Yakovlev A. (St. Petersburg)**
- 09:30-09:45 **Kostareva A. (St. Petersburg)**
New genetic determinants of congenital myocardial pathology
- 09:45-10:00 **Malashicheva A. (St. Petersburg)**
New data of aortic valve calcification
- 10:00-10:15 **Dmitrieva R. (St. Petersburg)**
RNA-sequencing approaches in the mechanisms of metabolic reprogramming of myoblasts
- 10:15-10:30 **Kalinina N. (St. Petersburg)**
Immunopathogenesis of necrotizing enterocolitis in children with congenital heart defects
- 10:30-11:00 Discussion

11:15-12:45

Botkin hall, 2 Akkuratova street || live stream

**Symposium
EXTRACELLULAR VESICLES: HUGE PERSPECTIVES FOR SMALL OBJECTS**

- Chairs:** **Kostareva A., Golovkin A. (St. Petersburg), Wenjing Sun (Harbin, China)**
- 11:15-11:25 **Golovkin A. (St. Petersburg)**
Methods for obtaining extracellular vesicles. Opportunities and prospects for highly specific sorting
- 11:25-11:35 **Yakovlev A. (Moscow)**
Increased levels of small extracellular vesicles in the blood serum of patients with depression, epilepsy, and epilepsy with depression
- 11:35-11:55 **Wenjing Sun (Harbin, China)**
The mechanism of TGF- β mediated cholangiocyte paracrine in biliary fibrosis of biliary atresia
- 11:55-12:05 **Yunusova N. (Tomsk)**
Concentration, composition and expression phenotype of circulating adipocyte-derived vesicles in patients with colon polyps and colorectal cancer
- 12:05 -12:15 **Basalova N. (Moscow)**
The role of microRNAs, transported by mesenchyme stromal cell-derived extracellular vesicles, in the regulation of fibrosis process
- 12:15-12:25 **Mikhailova V., Sokolov D., Selkov S. (St. Petersburg)**
Microvesicles as subjects of intercellular communication in reproductive biology
- 12:25-12:30 **Miroshnikova V. (St. Petersburg)**
Extracellular vesicles of adipose tissue: the role in the development of concomitant pathologies in obesity
- 12:30-12:35 **Petrova T. (St. Petersburg)**
Peculiarities of microRNA transport performed by extracellular vesicles of blood plasma
- 12:35-12:45 **Sambur D. (St. Petersburg)**
Extracellular vesicles secreted by THP-1 cells as regulators of the immune response during spinal cord injury in *Danio rerio*

11:15-12:45

Museum hall, 2 Akkuratova street || live stream

Symposium

AUTOIMMUNE DISEASES: FROM THEORY TO PRACTICE

Chairs: Maslyansky A. (St. Petersburg), Starshinova A. (St. Petersburg), Ses T. (St. Petersburg), Zhang Fengmin (Harbin, China)

- 11:15-11:25 **Vasilyeva E., Vavilova T. (St. Petersburg)**
Multidisciplinary palette of autoimmune diseases in a multidisciplinary hospital
- 11:25-11:35 **Lapin S. (St. Petersburg)**
Serological methods for autoimmune diseases examination: Problems and solutions
- 11:35-11:45 **Zhang Feng-Min (Harbin, China)**
Photo-medical technology benefit for the treatment and prevention of autoimmune and infectious disease
- 11:45-11:55 **Maslyansky A. (St. Petersburg)**
Idiopathic recurrent pericarditis as an example of an autoinflammatory IL-1 driven disease: New treatment opportunity
- 11:55-12:05 **Ses T. (St. Petersburg)**
Sarcoidosis – unresolved issues of pathogenesis
- 12:05-12:15 **Starshinova A. (St. Petersburg)**
ASIA syndrome and sarcoidosis: Is there a relationship?
- 12:15-12:25 **Savchenko A. (Krasnoyarsk)**
The role of regulatory T lymphocytes in the immunopathogenesis of Graves' disease
- 12:25-12:35 **Li Chao (Harbin, China)**
Construction of 4-1BB nanoantibody targeted probe and its application in early diagnosis of rheumatoid arthritis
- 12:35-12:45 **Novosad S. (Moscow)**
Immune checkpoint inhibitors and autoimmunity: features of the development of adverse endocrine events

09:30-11:00

Online hall || live stream

Symposium

INTEGRATIVE NANOTECHNOLOGIES IN PERSONALIZED MEDICINE

Chairs: Shevtsov M. (St. Petersburg), Sonawane Avinash (Indore, India), Wenfeng Jia (Chengdu, China)

- 09:30-09:45 **Sakhabeev R. (St. Petersburg)**
A new class of biocompatible preparations that can selectively sorb viruses and biological objects on their surface
- 09:45-10:00 **Sonawane Avinash (Indore, India)**
Development of novel M-ASPAR for the treatment of primary and relapse acute lymphatic leukemia
- 10:00-10:15 **Shirish Hari Sonawane (Warangal, India)**
Process intensification using ultrasound for the synthesis of polymer spheres and nanoemulsion for delivery systems
- 10:15-10:30 **Huile Gao (Chengdu, China)**
A Brain targeted drug delivery for the treatment of Alzheimer's disease

- 10:30-10:40 **Wenfeng Jia (Chengdu, China)**
Dual-responsive shape-transformable nanoparticles combined with photodynamic therapy and immunotherapy for breast cancer and lung metastasis.
- 10:40-10:50 **Skorik Yu. (St. Petersburg)**
Nanotechnologies in the development of polymeric antibiotic delivery systems (polymyxins as an example)
- 10:50-11:00 **Zimina T. (St. Petersburg)**
Hybrid microfluidic systems with integrated multiple sensors for real-time monitoring of life tissues

11:15-12:45

Online hall || live stream

Symposium

MOLECULAR CHAPERONES IN THE DIAGNOSIS AND THERAPY OF SOCIALLY SIGNIFICANT DISEASES (PART 2)

- Chairs** **Chairs: Shevtsov M. (St. Petersburg), Shalija Singh (Delhi, India)**
- 11:15-11:30 **Shevtsov M. (St. Petersburg)**
Membrane-associated heat shock protein Hsp70 as a target for tumor disease theranostics
- 11:30-11:45 **Shalija Singh (Delhi, India)**
Targeting PfProhibitin 2 - Hu-Hsp70A1A complex during Plasmodium falciparum invasion of erythrocytes as a novel approach towards vaccine candidacy
- 11:45-12:00 **Ankita Behl (Delhi, India)**
Discovery of a potential transmission blocking anti-malarial 'LI71' targeting 'PfCoSP' that facilitates parasite adaptation upon cold stress in mosquito host
- 12:00-12:10 **Kokoreva N. (St. Petersburg)**
The immune component effect of the microenvironment on tumor cell proteostasis during recurrence
- 12:10-12:20 **Vladimirova S. (St. Petersburg)**
Heat shock factor inhibitor 1 as a component of combined antitumor therapy: Mechanisms of action
- 12:20-12:30 **Bobkov D. (St. Petersburg)**
Chaperones in tumor cell migration and invasion
- 12:30-12:40 **Likhomanova R. (St. Petersburg)**
Involvement of membrane-associated protein Hsp70 in tumor cell invasion and migration
- 12:40-12:45 Discussion

MAY 14, 2024 – POSTER SESSION

PETER'S ASSEMBLY HALL

09:30-11:00

Peter's Assembly hall, 2 Akkuratova street || live stream

POSTER SESSION

NEW TECHNOLOGIES IN PEDIATRICS, MICROBIOLOGY, REPRODUCTIVE MEDICINE AND ENDOCRINOLOGY

- Chairs:** Suvorov A., Vasichkina E., Karonova T. (St. Petersburg), Zhang Fengmin (Harbin, China)
- 09:30-09:35 **Komarova D., Samusenkova D., Oskolkova E., Lebedeva E., Dengina N., Odintsova G. (St. Petersburg)**
Physical activity and sport in patients with epilepsy: A single-centre uncontrolled retrospective cohort study
- 09:35-09:40 **Todorov S., Kazmin A., Hovsepyan A., Todorov S., Spesivtseva K. (Rostov-on-Don)**
Pathomorphological features of pulmonary vascular lesions in COVID-19 pneumonia
- 09:40-09:45 **Kulpina A., Vasichkina E. (St. Petersburg)**
Heart damage in children on the background and after COVID-19: peculiarities of course and diagnostics
- 09:45-09:50 **Pashuk S., Gusina A. (Minsk, Belarus)**
Mutations in fibroblast growth factor receptor genes in systemic skeletal dysplasias and syndromal forms of craniosynostosis in patients from Belarus
- 09:50-09:55 **Deinaga V., Govorov I., Pavlov V., Komlichenko E., Ulrich E., Fedorov S., Savinov P., Zavyalov S. (St. Petersburg), Kesic V. (Belgrade, Serbia)**
Artificial intelligence based neural network algorithm in the diagnosis of cervical pathology
- 10:00-10:05 **Rykov M. (Moscow), Dolgoplov I. (Tver)**
Immunotherapy of malignant glial tumors of the CNS in children
- 10:05-10:10 **Timkina N., Ustyuzhanina A., Simanenkova A. (St. Petersburg)**
Bone metabolism in patients with type 1 diabetes mellitus and diabetic peripheral polyneuropathy
- 10:10-10:15 **Rykov M. (Moscow), Dolgoplov I. (Tver)**
The influence of patient routing on the diagnosis of acute leukemia in children
- 10:15-10:25 **Amosova N. (St. Petersburg)**
Peripheral nervous system damage associated with coronavirus infection
- 10:25-10:30 **Prokudina E., Senokosova E., Antonova L., Kochergin N. (Kemerovo)**
Biopolymer vascular patch - preclinical testing in a large animal model
- 10:30-10:35 **MENG Qing-Tai (Harbin, China)**
The gut-joint axis mediates the TNF-induced RA process and PBMT therapeutic effects through the metabolites of gut microbiota
- 10:35-10:40 **Yue Luxiao (Harbin, China)**
Crocic alleviates vascular endothelial senescence induced by diabetes through regulating mitochondrial homeostasis at YAP1/FOXO1/GPX1 axis
- 10:45-10:50 **Morozova A., Suvorov A. (St. Petersburg)**
Antitumour properties of group A streptococcal superantigens
- 10:50-10:55 **Akino A., Mikhailova A., Golovkin A. (St. Petersburg), Karonova T.**

(St. Petersburg)

Dynamics of regulatory T cells as a marker of immune rehabilitation in patients after acute coronavirus infection

10:55-11:00

Akhmetova A., Filippov A. (St. Petersburg)

Characteristics of glucose level in different sex and age groups

11:00-11:05

Vasilieva L., Fedotov P., Sitnikova M., Korneva L., Simonenko M. (St. Petersburg)

Hospital-acquired infections in the early posttransplantation period: risk factors