



PROGRAM
VI International Conference
on Combating Infectious Diseases: New Challenges

December 11–12, 2025
St.Petersburg



VENUE

B.N. Yeltsin Presidential Library

Address: St. Petersburg, Senatskaya square, 3



1st floor Multimedia Hall 1

1st floor Multimedia Hall 2

2nd floor Great Hall

2nd floor White Hall



Dear colleagues, participants of the scientific and practical conference!

In 2025, the VI International Scientific and Practical Conference on Combating Infectious Diseases will be held in St. Petersburg. It traditionally discusses a wide range of key issues facing modern biological threats.

The 1st conference of such format was organized in St. Petersburg in 2020 to discuss approaches to combating the novel coronavirus infection. The experience of various countries in organizing anti-epidemic measures, the feasibility and effectiveness of lockdowns, and the lessons learned by the global community in preparing for new pandemics were examined in detail.

Today, we need to respond to new challenges: artificial intelligence and synthetic biology technologies are leading to significant breakthroughs in various fields, including medicine, while the potential risks of their uncontrolled use could lead to a global catastrophe. These issues will be the focus of our attention in both plenary and breakout sessions. It is necessary not only to develop these technologies but also to formulate proposals from the scientific community aimed at regulating their use.

At the conference, delegates from more than 30 countries will discuss modern scientific developments that are being actively implemented in epidemiological surveillance and control practices, including the establishment of mobile laboratories and mobile rapid response technologies; the use of information technology and geographic information systems; the use of genomic surveillance and population immunological monitoring; and the development of new drugs for the diagnosis and prevention of infectious diseases. The Russian Federation is ready to share its existing experience in this area with partner countries.

Under current conditions, improving the international system of relations in the area of preventing and responding to existing and future threats to sanitary and epidemiological well-being is particularly urgent. Scientific cooperation and the exchange of best practices in all areas of infectious disease control are extremely important.

Amid the weakening of the global collective biosecurity architecture, regional and sub-regional cooperation is becoming increasingly important. With the participation of the Russian Federation, various regional mechanisms and cooperation programs to ensure biological security are currently being implemented in the CIS, CSTO, SCO, and on the African continent.

Regional biological security is based on national systems for ensuring the sanitary and epidemiological well-being of the population. The ability to respond to crises caused by biological threats, as well as the sustainability of regional healthcare systems as a whole, depend on the reliability and resilience of national systems. The Russian Federation consistently supports the implementation of the IHR (2005) and is increasing its efforts to assist partner countries in strengthening their biological sovereignty. Experiences from such cooperation will also be presented at the conference.

I wish all conference participants fruitful work, creative success, and new scientific achievements. Our joint work will contribute to the further development of international cooperation and the strengthening of scientific and practical collaboration. I am confident that by combining our efforts and scientific and technical potential, we will achieve decisive results in the fight against dangerous infectious diseases and in ensuring the sanitary and epidemiological well-being of our populations.

Head of Federal Service for Surveillance
on Consumer Rights Protection and Human
Well-being, Chief State Sanitary Officer
of the Russian Federation, DSc (Medicine), Professor



Anna Popova

ORGANIZERS

Federal Service for Surveillance on Consumer Rights Protection
and Human Well-being
Russian Anti-Plague Institute "Microbe"
St. Petersburg Pasteur Institute

ORGANIZING COMMITTEE

Chairperson:

Anna Yu. Popova – Head of the Federal Service for Surveillance on Consumer Rights Protection and Human Well-being, Chief State Sanitary Physician of the Russian Federation

Members of the organizing committee:

Vyacheslav Yu. Smolensky – Deputy Head of the Federal Service for Surveillance on Consumer Rights Protection and Human Well-being

Vladimir V. Kutyrev – Director of the Russian Anti-Plague Institute "Microbe" of Rospotrebnadzor

Areg A. Totolian – Director of St. Petersburg Pasteur Institute

Nikolay G. Balan – Head of the Department of International Cooperation, Central Office of the Federal Service for Surveillance on Consumer Rights Protection and Human Well-being

Albina A. Melnikova – Head of the Department of Epidemiological Welfare of the Population, Central Office of the Federal Service for Surveillance on Consumer Rights Protection and Human Well-being

INFORMATION SUPPORT

Simakova V.O. – Deputy Head of the Department of Control and Supervisory Activities, Central Office of the Federal Service for Surveillance on Consumer Rights Protection and Human Well-being

PROGRAM COMMITTEE

Vadim M. Govorun – Director of the Research Institute for Systems Biology and Medicine of Rospotrebnadzor

Vasiliy G. Akimkin – Director of the Central Research Institute of Epidemiology of Rospotrebnadzor

Svetlana A. Shcherbakova – Deputy Director for Scientific and Experimental Work, Russian Anti-Plague Institute "Microbe" of Rospotrebnadzor

Vladimir G. Dedkov – Deputy Director for Scientific Work, St. Petersburg Pasteur Institute

Svetlana A. Egorova – Deputy Director for Innovation, St. Petersburg Pasteur Institute

SECRETARIAT

Maria S. Voshcheva
Kseniya A. Smirnova

mobile phone: 8 921 324-54-91
mobile phone: 8 921 305-25-13

SCHEDULE OF MEETINGS

December 11, 2025 (Thursday)

	Great Hall	Multimedia Hall 1	Multimedia Hall 2	White Hall
9:15–10:00	OPENING CEREMONY			
10:00–11:30	PLENARY SESSION			
11:30–12:00	Coffee break			
12:00–14:30	SESSION 1 Big data in epidemiological surveillance	SESSION 2 Immunological surveillance: achievements and prospects	SESSION 3 The evolution of viruses	
14:30–15:30	Lunch			
15:30–18:00	RUSSIAN-CHINESE SYMPOSIUM Cooperation for epidemiological well-being	SESSION 4 Combat trauma: epidemiology, antibiotic resistance of wound infection pathogens, and their prevention	SESSION 5 HIV infection	ROUND TABLE Russian developments for foreign countries (until 17:00)

December 12, 2025 (Friday)

	Great Hall	Multimedia Hall 1	Multimedia Hall 2	White Hall
9:30–11:30	II PLENARY SESSION Impact of infection on the development of somatic pathology			
11:30–12:00	Coffee break			
12:00–14:30	SESSION 6 Uniting efforts: international experience and international cooperation in combating infectious diseases	SESSION 7 Modern concept of genomic epidemiological surveillance	SESSION 8 Emergent and re-emergent infections	
14:30–15:30	Lunch			
15:30–16:45	SESSION 9 Various aspects of infectious diseases: the current global situation	SESSION 10 Drug resistance of pathogenic bacteria: problem analysis and solutions	SESSION 11 Systems and synthetic biology to solve problems in epidemiological surveillance	ROUND TABLE Pathogenesis of infection X
16:45–18:00				SESSION 12 Current issues of HPV infection
18:00	SUMMARIZING. CLOSING CEREMONY			

Great Hall

8:00–9:15

Registration of conference participants

9:15–10:00

OPENING CEREMONY

10:00–11:30

I PLENARY SESSION

Co-chairs

Anna Popova, DSc (Medicine), Professor
Vladimir Kutyrev, Academician of the RAS

New biosafety threats and responses (15 min)

Vladimir Kutyrev, Russian Anti-Plague Institute "Microbe"
of Rospotrebnadzor, Saratov, Russia

New technologies for identification and indication of synthetic and genetically modified infectious agents (15 min)

Vadim Govorun, Research Institute for Systems Biology and Medicine,
Moscow, Russia

Respiratory multi-pathogen surveillance (15 min)

Chen Cao, National Institute for Viral Disease Control and Prevention,
China CDC

Deployment of the first type IV rapid response mobile laboratory during the 2025 Ebola Sudan Virus Disease (SVD) outbreak in Uganda (15 min)

Valeria Zalwango Nakintu¹, Nsawotebba A.², Ssekyondwa S.²,
Kasujja R.², Nabadda S.²; ¹Central Laboratory for Emergency Response
and Surveillance National Health Laboratory and Diagnostic Service
Ministry of Health of the Republic of Uganda; ²Rapid Response Mobile
Laboratory, Uganda

Analysis of the circulation of SARS-CoV-2 variants in the Republic of Serbia in 2024 (15 min)

Dragacevic Luka, Cokic B.B., Knezevic A., Curuvija I., Dakic M.,
Saponjic V., Tsibulskaya D., Institute of Virology, Vaccine and Sera "Torlak",
Republic of Serbia

Le rôle du laboratoire mobile dans les stratégies avancées de la riposte contre les urgences en santé publique: cas de la riposte contre le choléra en République du Congo de juillet à octobre 2025 (15 min)

Donatien Moukassa, Minister of Health and Population, Office Director, Université Marien N'Gouabi, République du Congo

11:30–12:00

Coffee break

Great Hall

SESSION 1

12:00–14:30

Big data in epidemiological surveillance

Chairman

Elena Ilina, Corresponding Member of the RAS

POEM as a tool for *in silico* epidemiology (20 min)

Elena Ilina, Research Institute for Systems Biology and Medicine, Moscow, Russia

Comparing the accuracy and sensitivity of computational methods for epidemic onset detection (20 min)

Alexander Manolov, Research Institute for Systems Biology and Medicine, Moscow, Russia

Reference-independent search for spreading organisms in metagenomic sequencing data (15 min)

Nikolay Popov, Panova V., Manolov A., Ilina E., Research Institute for Systems Biology and Medicine, Moscow, Russia

Hybrid modeling of epidemics using artificial intelligence (15 min)

Olga Krivorotko, Sirius University of Science and Technology, Russia

A decision support system for monitoring the incidence of pandemic acute respiratory viral infections based on statistical approaches and mathematical models (15 min)

Vasiliy Leonenko, A.A. Smorodintsev Research Institute of Influenza, Ministry of Health of the Russian Federation, St. Petersburg, Russia

Epidemiological data: from subjective basis to objective conclusions (15 min)

Valentin Safronov, Russian Anti-Plague Institute "Microbe"
of Rospotrebnadzor, Saratov, Russia

TERANGA: a modular digital platform for syndromic surveillance and early warning across 10 West African countries (15 min)

Cisse Mamadou, Institut Pasteur de Dakar, Republic of Senegal

Practical aspects of informatization of control over external and internal threats to the sanitary and epidemiological well-being of the population of the Russian Federation (15 min)

Anastasiya Zubova, Russian Anti-Plague Institute "Microbe"
of Rospotrebnadzor, Saratov, Russia

Molecular genetic methods in measles surveillance in the Russian Federation (15 min)

Yulia Urban, Turaeva N., Evseev P., G.N. Gabrichevsky Research Institute
for Epidemiology and Microbiology, Moscow, Russia

14:30–15:30

Lunch

Multimedia Hall 1

SESSION 2

Immunological surveillance: achievements and prospects

12:00–14:30

Co-chairs

Areg Totolian, Academician of the RAS
Oksana Svitich, Academician of the RAS
Zuridin Nutmatov, DSc (Medicine) (Kyrgyz Republic)

New diagnostic and preventive approaches as potential tools for immunological surveillance of respiratory viral infections (15 min)

Oksana Svitich, I.I. Mechnikov Research Institute of Vaccines and Sera, Moscow, Russia

Evaluation of population immunity to measles as a component of epidemiological surveillance during the period of infection elimination (15 min)

Irina Lavrentieva¹, Antipova A.¹, Minh Hoang², Camara J.³, D'Angelo P.⁴, Zheleznova N.¹, Egorova S.¹; ¹St. Petersburg Pasteur Institute, St. Petersburg, Russia; ²Pasteur institute in Ho Chi Minh City, Vietnam; ³Centre de Recherche en Virologie, Laboratoire des Fièvres Hémorragiques Virales, Guinée; ⁴Instituto Nacional de Higiene Rafael Rangel, Venezuela

Organization of seroepidemiological population studies as the basis of immunological monitoring (15 min)

Anzhelika Milichkina, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Collective immunity and measles and mumps incidences (15 min)

Anna Toptygina, G.N. Gabrichevsky Research Institute for Epidemiology and Microbiology, Moscow, Russia

Population immunity to certain vaccine-preventable infections among children in Saint Petersburg and Leningrad Region (15 min)

Viktoriia Drobyshevskaya, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Tendencies of the measles epidemic process in the Minsk region, Republic of Belarus, 2010–2025 (15 min) [VCF mode]

Anna Narbut, Minsk Regional Center for Hygiene, Epidemiology and Public Health, Republic of Belarus

Results of the sero-epidemiological studies on the assessment of population immunity to certain current infections in the Republic of Armenia (15 min)

Stepan Atoyan, National Center for Disease Control and Prevention, Ministry of Health of the Republic of Armenia

Assessment of population immunity and the prevalence of markers of hepatitis B virus in territories of several former USSR countries (15 min)

Iuliia Ostankova¹, Dashkevich A.², Nurmatov Z.³, Atoyan S.⁴, Nurieva S.⁵;

¹St. Petersburg Pasteur Institute, St. Petersburg, Russia; ²Republican Center of Hygiene, Epidemiology and Public Health, Republic of Belarus;

³National Institute of Public Health, Kyrgyz Republic; ⁴National Center for Disease Control and Prevention, Republic of Armenia; ⁵State Sanitary and Epidemiological Service, Turkmenistan

Immunological monitoring is the basis for specific prevention of viral hepatitis B in the Kyrgyz Republic (15 min)

Zuridin Nurmatov, Scientific and Practical Center for Viral Infection Control of the National Institute of Public Health, Ministry of Health of the Kyrgyz Republic

A century of legacy: Serbia's experience in vaccine production as a foundation for the future (15 min)

Katarina Radojević¹, Kisić D.²; ¹Institute of Virology, Vaccine and Sera "Torlak", Republic of Serbia; ²Science Fund of Republic of Serbia

14:30–15:30

Lunch

Multimedia Hall 2

SESSION 3

The evolution of viruses

12:00–14:30

Co-chairs

Mikhail Shchelkanov, Corresponding Member of the RAS
Alkhovsky Sergey, Corresponding Member of the RAS

Viruses of the ocean: aqua mortus vs aqua viva (15 min)

Mikhail Shchelkanov, G.P. Somov Institute of Epidemiology and Microbiology, Vladivostok, Russia

Genetic diversity of enteroviruses circulating in the Russian Far East at the present stage (13 min)

Liudmila Butakova, Sapega E., Trotsenko O., Khabarovsk Research Institute of Epidemiology and Microbiology of Rospotrebnadzor, Khabarovsk, Russia

Evolution, recombination, and taxonomy of +RNA viruses (13 min)

Aleksandr Lukashev, E.I. Martsinovsky Institute of Medical Parasitology, Tropical and Transmissible Diseases, Moscow, Russia

Epidemiology, evolution and genetic diversity of tick-borne encephalitis virus in the Russian Federation (13 min)

Aleksandr Lyapunov, Balakhonov S., Sidorova E., Nikitin A., Tolmacheva M., Bondaryuk A., Mironova L., Irkutsk Anti-Plague Research Institute of Rospotrebnadzor, Irkutsk, Russia

Evolution of natural foci of Omsk hemorrhagic fever: spatial and temporal aspects (13 min)

Sergey Shtrek, Isakov A., Omsk Research Institute of Natural Focal Infections of Rospotrebnadzor, Omsk, Russia

Genomics, genetics, and evolution of bat coronaviruses circulating in the south of European Russia (13 min)

Sergey Alkhovsky, Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Evolutionary dynamics of influenza viruses: from antigenic drift to pandemic potential (13 min)

Daria Danilenko, Lioznov D., A.A. Smorodintsev Research Institute of Influenza of the Ministry of Health of Russian Federation, St. Petersburg, Russia

Hepatitis E – epidemiology and genetic diversity of the virus (13 min)

Mikhail Mikhailov, Kyuregyan K., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

The evolution of the Hepatitis B virus: across centuries and continents (13 min)

Elena Esaulenko, Skvoroda V., St. Petersburg Pasteur Institute, St. Petersburg, Russia

Hepatitis C virus microevolution during HIV coinfection therapy (13 min)

Aleksandr Semenov, Federal Research Institute of Viral Infections “Virom” of Rospotrebnadzor, Yekaterinburg, Russia

Modern evolution of Mpox virus genome (13 min)

Aleksandr Agafonov, State Research Center of Virology and Biotechnology “Vector” of Rospotrebnadzor, Koltsovo, Novosibirsk Region, Russia

14:30–15:30

Lunch

Great Hall

15:30–18:00

RUSSIAN-CHINESE SYMPOSIUM **Cooperation for epidemiological well-being**

Co-chairs

Anna Popova, DSc (Medicine), Professor, Head of Federal Service for Surveillance on Consumer Rights Protection and Human Well-being, Chief State Sanitary Officer of the Russian Federation
Jia Yuping, National Disease Control and Prevention Administration of China

Current trends in improving epidemiological surveillance in natural plague foci in the border regions of Russia and China (15 min)

Sergey Balakhonov, Irkutsk Anti-Plague Research Institute of Rospotrebnadzor, Irkutsk, Russia

Chinese plague and surveillance-associated research advances (15 min)

Wei Li, CDC National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, China

The rapid response system for sanitary and epidemiological emergencies in the Russian Federation and prospects for russian-chinese cooperation (15 min)

Vladimir Kutyrev, Russian Anti-Plague Institute "Microbe" of Rospotrebnadzor, Saratov, Russia

Response to Chikungunya outbreaks in China (15 min)

Lei Zhou, Chinese Center for Disease Control and Prevention

Genomic epidemiological surveillance in the Russian Federation (15 min)

Vasiliy Akimkin, Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Introduction of "Animal virome" initiative (15 min)

Shuhui Song, Bioinformation Services Department, China National Center for Bioinformation, China

Immunological surveillance as part of epidemiological surveillance of infections (15 min)

Areg Totolian, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Biodata introduction of China national center for bioinformation (15 min)

Zhang Zhang, Data Resource Department, China National Center for Bioinformation, China

Prevention and control experience and outlook of hemorrhagic fever with renal syndrome in Heilongjiang province, China (15 min)

Mingjia Bao, Heilongjiang Provincial Center for Disease Control and Prevention, China

Multimedia Hall 1

SESSION 4

15:30–18:00

Combat trauma: epidemiology, antibiotic resistance of wound infection pathogens, and their prevention

Co-chairs

Aleksei Tutelian, Academician of the RAS
Alexandr Kuzin, Corresponding Member of the RAS
Mikhail Zamiatin, DSc (Medicine)

Modern approaches to the diagnosis, prevention and treatment of infectious complications in neurotrauma (15 min)

Aleksei Tutelyan¹, Doliner N.², Davydov D.², Gizatullin Sh.², Kolobaeva E.², Antokhov V.², Alyoshkin A.³, Kiseleva I.³, Tivanova E.³, Solovyova I.¹, Tronza T.¹, Skachkova T.¹, Akimkin V.¹; ¹Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia; ²Main Military Clinical Hospital named after Academician N.N. Burdenko, Moscow, Russia; ³G.N. Gabrichevsky Research Institute for Epidemiology and Microbiology, Moscow, Russia

Practical aspects of overcoming antibiotic resistance in pathogens of infectious complications of combat surgical trauma (15 min)

Andrey Zobov, Sergoventsev A., Morozov S., Glushakov R., Kuzin A., Military Medical Academy named after S.M. Kirov, St. Petersburg, Russia

Approaches to prevention and antimicrobial therapy of wound infections amid rising antibiotic resistance (15 min)

Mikhail Zamiatin, Gusarov V., Levchuk A., Petrova L., Kamysheva D., Orlova O., Pirogov National Medical and Surgical Center, Moscow, Russia

Infectious complications of combined thermomechanical trauma: problems and modern approaches to prevention (15 min)

Pavel Markevich, A.A. Vishnevsky National Medical High-Tech Research Center – Central Military Clinical Hospital, Moscow, Russia

Photodynamic decontamination of antibiotic-resistant microflora in gunshot wounds (15 min)

Mikhail Ivankov, A.A. Vishnevsky National Medical High-Tech Research Center – Central Military Clinical Hospital, Moscow, Russia

Organization of internal control of epidemiological safety in a multidisciplinary departmental military medical institution (15 min)

Veronika Medvedeva, A.A. Vishnevsky National Medical High-Tech Research Center – Central Military Clinical Hospital, Moscow, Russia

Innovative biotechnological solutions: bacteriophages and immunoglobulins in the complex therapy of mine-explosive wounds (15 min)

Aleksei Vorobev, G.N. Gabrichevsky Research Institute for Epidemiology and Microbiology, Moscow, Russia

Algorithm for the diagnosis of ESCAPE pathogens in order to optimize antibiotic therapy in purulent-septic infections (15 min)

Tatiana Skachkova, Akimkin V., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Disinfection measures based on the circulating microorganism profile in a multidisciplinary hospital (15 min) [VCF mode]

Ludmila Fedorova, Research Institute for Systems Biology and Medicine, Moscow, Russia

Multimedia Hall 2

15:30–18:00

Co-chairs

SESSION 5

HIV infection

Vadim Pokrovskiy, Academician of the RAS
Nikolay Beliaikov, Academician of the RAS

Epidemiological effectiveness of preventive and curative measures for HIV infection (12 min)

Vadim Pokrovskiy, Central Research Institute of Epidemiology
of Rospotrebnadzor, Moscow, Russia

The hustle towards finding solution to HIV infection in Ghana: perspectives from biomedical research (12 min)

Quaye Osbourne, University of Ghana

Polymorphism of innate immunity genes as a predictor of HIV infection risk in the russian population (12 min)

Iuliia Ostankova, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Epidemiological surveillance of HIV infection in the Russian Federation (12 min)

Natalia Ladnaya, Central Research Institute of Epidemiology
of Rospotrebnadzor, Moscow, Russia

Features of HIV-1 molecular epidemiology in the Northwestern Federal District: identification of transmission clusters and virus genetic diversity (12 min)

Alexandr Shchemelev, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Application of bioinformatic methods in epidemiological surveillance of HIV infection (12 min)

Dmitry Kireev, Central Research Institute of Epidemiology
of Rospotrebnadzor, Moscow, Russia

PNOC protein mutations and their influence on CCR5 and CXCR4 co-receptor binding affinity in HIV infection via computer modeling (12 min)

Vladimir Davydenko, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Situation épidémiologique du VIH au Burundi (12 min)

Cléophile Akindavyi, Ministère de la Santé Publique et de la Lutte contre
le SIDA de la République du Burundi

Vaccination of people living with HIV (12 min)

Anna A. Popova, Central Research Institute of Epidemiology
of Rospotrebnadzor, Moscow, Russia

HIV infection in women of childbearing age: successes and challenges (12 min)

Elena Iastrebova, Nebozhin I., St. Petersburg Pasteur Institute, St. Petersburg, Russia

The International classification of diseases (ICD) and epidemiological surveillance of HIV infection (12 min)

Oleg Yurin, Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

White Hall

ROUND TABLE

Russian developments for foreign countries

15:30–18:00

Chairman

Alexandr Agafonov, DSc (Biology)

ELISA test system for assessing post-infection and post-vaccination immunity to cholera (10 min)

Nikolay Gorbunov, Totolian A., St. Petersburg Pasteur Institute, St. Petersburg, Russia

Development and application of a rapid method for detection of cholera vibrios based on direct PCR with real-time results (10 min)

Oleg Morozov, Domanina I., Naidenova E., Portenko S., Senichkina A., Sitmbetov D., Osina N., Shcherbakova S., Russian Anti-Plague Institute "Microbe" of Rospotrebnadzor, Saratov, Russia

ELISA test system for assessing post-vaccination immunity to the typhoid fever and for carrier screening (10 min)

Aleksandr Ishchenko, Totolian A., St. Petersburg Pasteur Institute, St. Petersburg, Russia

Diagnosis of infectious diseases using rapid molecular tests (10 min)

Vadim Petrov, Akimkin V., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Development of a set of reagents for the detection of *Plasmodium* spp. using the LAMP method (10 min)

Vadim Petrov, Akimkin V., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Assistance to foreign countries in developing systems to counter dangerous viral diseases (10 min)

Alexandr Agafonov, State Research Center of Virology and Biotechnology "Vector" of Rospotrebnadzor, Koltsovo, Novosibirsk Region, Russia

Great Hall

II PLENARY SESSION

9:30–11:30

Impact of infection on the development of somatic pathology

Co-chairs

Vadim Govorun, Academician of the RAS
Alexander Rumyantsev, Academician of the RAS

The role of infection in human pathology (20 min) [in record]

Victor Maleev, Central Research Institute of Epidemiology
of Rospotrebnadzor, Moscow, Russia

Herpes viral infections and somatic diseases. Models of interaction (20 min)

Alexander Rumyantsev, Dmitry Rogachev National Medical Research
Center of Pediatric Hematology, Oncology and Immunology, Ministry
of Health of the Russian Federation, Moscow, Russia

Vaccines for emergency prevention of viral and bacterial infections (20 min)

Vitaly Zverev, I.I. Mechnikov Research Institute of Vaccines and Sera,
Moscow, Russia

Microbiota and us: contextual ambivalence (20 min)

Elena Ilina, Research Institute for Systems Biology and Medicine, Moscow,
Russia

Thyroid gland and infections: a collapse of barriers (20 min) [in record]

Ekaterina Troshina, Endocrinology Research Center, Ministry of Health
of the Russian Federation, Moscow, Russia

Non-infectious consequences of infectious diseases (20 min)

Nataliya Pshenichnaya, Central Research Institute of Epidemiology
of Rospotrebnadzor, Moscow, Russia

11:30–12:00

Coffee break

Great Hall

SESSION 6

12:00–14:30

Uniting efforts: international experience and international cooperation in combating infectious diseases

Co-chairs

Svetlana Shcherbakova, DSc (Medicine)
Ivan Kuttyrev, PhD (Medicine)

The main directions and forms of international cooperation of the Russian Federation in the field of combating infectious diseases (12 min)

Svetlana Shcherbakova, Russian Anti-Plague Institute "Microbe"
of Rospotrebnadzor, Saratov, Russia

International cooperation in the prevention and control of infectious diseases between the Joint Vietnam–Russia tropical science and technology research center and research institutes of Rospotrebnadzor (12 min)

Nguyen Phi Long, Joint Vietnam-Russia Tropical Science and Technology
Research Center, Vietnam

Comprehensive characteristics of *Yersinia pestis* from high mountain plague foci in the Kyrgyz Republic (12 min)

Aigul Dzhaparova, Republican Center for the Prevention and Control
of Particularly Dangerous, Quarantine Infections of the Ministry of Health
of the Kyrgyz Republic

Improving cholera surveillance in the Republic of Tajikistan: results of joint work with Russian specialists (12 min)

Zamir Gulmakhmad Gulmakhmadzoda, Republican Center
for the Control of Quarantine Diseases, Republic of Tajikistan

Experience in organizing laboratory investigations by Russian and Congolese specialists during the containment of epidemic outbreaks of acute intestinal infections in the Republic of Congo in 2023 and 2025 (12 min)

Svetlana Portenko, Russian Anti-Plague Institute "Microbe"
of Rospotrebnadzor, Saratov, Russia

Shaping tomorrow: Serbia's scientific vision (12 min)

Darija Kisic, Science Fund of Republic of Serbia

Development and testing of means for the control of arthropods and rodents of epidemiological significance in tropical climate (12 min)

Sergey Andreev, Demina Yu., Komarov V., Zverev S., Ugleva S., Institute of Disinfectology, Federal Scientific Center of Hygiene named after F.F. Erisman Rospotrebnadzor, Moscow, Russia

Detection of adenoviruses and astroviruses in patients and marine animals in the Republic of Guinea (12 min)

Andre Saa Togbodouno, Institut de Recherche en Biologie Appliquée de Guinée, Guinée

Combating the spread of HIV/AIDS in the Eastern Europe and Central Asia (EECA) Region with the support of the Government of the Russian Federation (12 min)

Anastasiia Pokrovskaya, Suvorova Z., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Prevention and management of infectious diseases in Madagascar (12 min)

Mamy Jean de Dieu Randria, Infectious Diseases Unit, University Hospital Joseph Raseta Befelatanan, Madagascar

Genomic surveillance of viral disease: experience of INHRR with the SARS-CoV-2, Dengue and Oropouche viruses (12 min) [in record]

Martha Bravo, Aguilar M., Feo O., Vivas J., D'Angelo P., Rodríguez L., Moya M., Instituto Nacional de Higiene Rafael Rangel, Venezuela

14:30–15:30

Lunch

Multimedia Hall 1

SESSION 7

12:00–14:30

Modern concept of genomic epidemiological surveillance

Chairman

Vasiliy Akimkin, Academician of the RAS

Prospects for expanding genomic epidemiological surveillance of viral and bacterial pathogens based on the VGARUS platform (12 min)

Kamil Khafizov, Akimkin V., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Virom RF: systematic search for new RNA-containing viruses with pathogenic potential for early detection and prevention of viral threats (12 min)

Alexander Agafonov, State Research Center of Virology and Biotechnology "Vector" of Rospotrebnadzor, Koltsovo, Novosibirsk Region, Russia

Hepatitis with parenteral transmission as health care infections (12 min)

Karen Kyuregyan, Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Genomic epidemiological surveillance of natural-focal and zoonotic infections – practical aspects (12 min)

Aleksandr Kulichenko, Stavropol Anti-Plague Research Institute of Rospotrebnadzor, Stavropol, Russia

Molecular methods for monitoring and adjusting strategies to counter infectious diseases (12 min) [in record]

Vladimir Gushchin, Pochtovyi A., National Research Center for Epidemiology and Microbiology named after N.F. Gamaleya, Moscow, Russia

Diagnostics of infections in the centralized laboratory of the Moscow Department of Health (12 min)

Andrey Komarov, Moscow Scientific and Practical Center for Laboratory Research of the Moscow Department of Health, Moscow, Russia

Monitoring viral infections: experience of the Moscow genomic center of MNPTsLI (Moscow Scientific and Practical Center for Laboratory Research of the Moscow Department of Health) in 2023–2025 (12 min)

Oleg Glotov, Domkin A., Komarov A., Moscow Scientific and Practical Center for Laboratory Research of the Moscow Department of Health, Moscow, Russia

Genetic characterization of human ARVI pathogens based on amplicon sequencing data (12 min)

Andrey Komissarov, A.A. Smorodintsev Research Institute of Influenza of the Ministry of Health of Russian Federation, St. Petersburg, Russia

Prospects for the development of a domestic semiconductor DNA sequencing system: sequencer, microelectronic chip, sample preparation (12 min)

Sergey Dolgushin, LLC "Semiconductor Genetic Technologies", Moscow, Russia

Using mutation networks to infer directions of SARS-CoV-2 importation to Russia (12 min)

Andrei Samoilov, Research Institute for Systems Biology and Medicine, Moscow, Russia

Organization and prospects for the development of the SARS-CoV-2 genomic epidemiological surveillance system in the Kyrgyz Republic (12 min)

Erkingul Baltabaeva, Kasymov O., Department of Disease Prevention and State Sanitary-Epidemiological Surveillance, Ministry of Health of the Kyrgyz Republic, Kyrgyz Republic

14:30–15:30

Lunch

Multimedia Hall 2

SESSION 8

Emergent and re-emergent infections

12:00–14:30

Co-chairs

Vladimir Dedkov, PhD (Medicine)
Mostafa Salehi-Vaziri (Iran)

Crimean Congo hemorrhagic fever in Iran (12 min)

Mostafa Salehi-Vaziri, Pasteur Institute of Iran

Classification and phylogeographic diversity of *Yersinia pestis* in natural plague foci of Eastern Europe and Central Asia (12 min)

Galina Eroshenko, Russian Anti-Plague Institute "Microbe"
of Rospotrebnadzor, Saratov, Russia

When the forest speaks again: genomic traces of a forgotten dengue lineage (12 min)

Idrissa Dieng, Institut Pasteur de Dakar, Republic of Senegal

Antigenic characterization and development of a multilocus sequencing-typing scheme *Borrelia miyamotoi* (12 min)

Konstantin Mironov, Titkov A., Kuleshov K., Platonov A., Central
Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Rabies control in Iran: paths to zero human deaths by 2030 amidst regional challenges (12 min)

Maryam Shahali, Pasteur Institute of Iran

Metagenomic sequencing for identification of new gene variants of pathogenic viruses (12 min)

Anna Volynkina, Stavropol Anti-Plague Research Institute
of Rospotrebnadzor, Stavropol, Russia

Surveillance of monkeypox in the Republic of Serbia, 2022–2025 (12 min)

Daria Tsibulskaia, Institute of Virology, Vaccines and Sera "Torlak",
Republic of Serbia

Filoviruses: new issues and surveillance strategies in the 21st century (12 min)

Vladimir Dedkov, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Genetic and mutational characteristics of the human immunodeficiency virus and hepatitis B and C viruses in pregnant women in the Republic of Guinea (12 min)

Thierno Amadou Labe Balde, Institut de Recherche en Biologie Appliquée de Guinée, Guinée

Seasonality and populations phenotype of respiratory infections in Russian regions (12 min)

Viacheslav Kachalov, Research Institute for Systems Biology and Medicine, Moscow, Russia

Genome bait, or how to sequence a desired bacterium from a complex sample using *Coxiella burnetii* as an example (12 min)

Dmitrii Plev, Bezrychko M., Freilikhman O., St. Petersburg Pasteur Institute, St. Petersburg, Russia

14:30–15:30

Lunch

Great Hall

SESSION 9

15:30–18:00

Various aspects of infectious diseases:
the current global situation

Co-chairs

Svetlana Egorova, DSc (Medicine)
Sanaba Boumbaly (Guinée)**The global and russian epidemiological situation regarding cholera (12 min)**

Natalia Gaevskaya, Agafonova V., Kruglikov V., Rostov-on-Don Research Anti-Plague Institute of Rospotrebnadzor, Rostov-on-Don, Russia

Bacteria of the genus *Desulfovibrio* in human pathology (12 min)

Antonina Ploskireva, Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

La maladie Mpox en Guinée : de la detection des premiers cas à la surveillance génomique (12 min)Sanaba Boumbaly¹, Camara J.¹, Soropogui B.¹, Toure M.¹, Nouridine I.¹, Koundouno R.², Conde M.¹, Haba M.¹, Coulibaly M.B.¹, Tolno F.⁴, Conde S.³, Camara A.¹; ¹Centre de Recherche en Virologie, Laboratoire des Fièvres Hémorragiques Virales, Conakry, Guinée; ²Laboratoire des Fièvres Hémorragiques Virales de Guéckédou, Guinée; ³Agence Nationale de Sécurité Sanitaire, Guinée; ⁴Centre de traitement Epidémiologique (CeTEpi) de Nongo, Guinée**Characteristics and epidemiological situation of infectious disease in the Central Region of Vietnam, 2016–2025 (12 min)**

Phan Vu Tien, Pasteur Institute in Nha Trang, Vietnam

Serological and molecular approach to Hepatitis E virus in Venezuela (12 min) [in record]

Doneyla Sánchez, D'Angelo P., Ameli G., Rodríguez L., Instituto Nacional de Higiene Rafael Rangel, Venezuela

Features of tryptophan metabolism as a risk factor for invasive pulmonary aspergillosis in oncohematological patients (12 min)

Anastasia Taraskina, Kashkin Research Institute of Medical Mycology, North-Western State Medical University named after I.I. Mechnikov, Russia

A study of the Oropouche virus (OROV) in Venezuela (12 min) [in record]

José Luis Zambrano Rouvier, Center for Microbiology and Cell Biology, Venezuelan Institute for Scientific Research, Venezuela

Scientific and technological support as a tool for combating infectious diseases in the Republic of Belarus (12 min)

Alina Dronina, Gorbunov V., Skuranovich A., Nechai S., Republican Center of Hygiene, Epidemiology and Public Health, Republic of Belarus

Molecular epidemiology of respiratory infection in Venezuela in the post pandemic period (12 min) [in record]

Héctor Rafael Rangel Escalante, Mariemily S., Jiménez M.F., Zambrano Y., Escobar F., Loureiro C.L., Álvarez M., Venezuelan Institute for Scientific Research, Venezuela

Hepatitis B virus in gabonese non-human primate: potential zoonotic circulation and long-term strain persistence (12 min)

Nadine N'dilimabaka^{1,2}, Mavoungou D.S.K.^{3,4}, Boundenga L.^{5,6}, Lekana-Douki S.E.³, Longo Penty N.M.⁵, Koumba Moukouama S.E.³, Kombila L.B.³, Falque G.³, Mangombi J.B.³, Ondeme A.M.⁷, Dedkov V.^{8,9}, Dacheux L.¹⁰, Aghokeng A.F.¹¹; ¹Département de Biologie, Faculté des Sciences, Université des Sciences et Techniques de Masuku, Gabon; ²Ecole des Sciences et Médecine Vétérinaires de Masuku, Université des Sciences et Techniques de Masuku, Gabon; ³Unité Emergence des Maladies Virales, Centre Interdisciplinaire de Recherches Médicales de Franceville (CIRMF), Gabon; ⁴Ecole Doctorale Régionale d'Infectiologie Tropicale (EDR), Gabon; ⁵Unité de Recherche en Ecologie de la Santé, CIRMF, Gabon, ⁶Département d'anthropologie, Université de Durham, UK, ⁷Unité des Infections Rétrovirales et Pathologies Associées, CIRMF, Gabon, ⁸St. Petersburg Pasteur Institute, Russia; ⁹Martsinovsky Institute of Medical Parasitology, Tropical and Vector Borne Diseases, Moscow, Russia; ¹⁰Institut Pasteur, Université Paris Cité/Environment and Infectious Risks Unit, Paris, France; ⁹MIVEGEC, Université de Montpellier, France

Molecular genetic surveillance of West Nile virus lineage 2 in the Russian Federation (12 min)

Aleksandr Antonov, Volgograd Anti-Plague Research Institute of Rospotrebnadzor, Volgograd, Russia

Multimedia Hall 1

SESSION 10

15:30–18:00

Drug resistance of pathogenic bacteria: problem analysis and solutions

Co-chairs

Anna Afinogenova, DSc (Biology)
Yakhya Dieye (Republic of Senegal)

Drug synergy: a way to overcome antibiotic resistance in gram-negative bacteria (12 min)

Anna Afinogenova, St. Petersburg Pasteur Institute,
St. Petersburg, Russia

Tracking antimicrobial resistance at the human–animal– environment interface in Senegal (12 min)

Yakhya Dieye, Institut Pasteur de Dakar, Republic of Senegal

Evolution of antibiotic resistance in *Salmonella* Typhi (12 min)

Lidia Kaftyreva, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Emergence of mobile colistin resistance (*mcr*) genes in extended-spectrum β -lactamase producing *Escherichia coli* isolated from retail raw foods in Central Viet Nam

Quoc Phong Le, Pasteur Institute in Nha Trang, Vietnam

Drug resistance profiles of HIV and *M. tuberculosis* in patients with co-infection (12 min)

Anna Panova¹, Semenov A.¹, Pitersky M.¹, Bilalova N.¹, Vasilyeva I.²,
Kazyulina A.², Vinokurov A.²; ¹Federal Research Institute of Viral
Infections "Virom" of Rospotrebnadzor, Yekaterinburg, Russia;
²National Medical Research Center of Phthisiopulmonology
and Infectious Diseases, Moscow, Russia

Prevalence and phenotypic and molecular characterization of carbapenemase-producing gram-negative bacteria in Gabon (12 min)

Annicet-Clotaire Dikoumba^{1,2,3}, Onanga R.², Jean-Pierre H.^{3,4}, Didelot M.-N.^{3,4}, Dumont Y.^{3,4}, Ouedraogo A.-S.^{5,6}, Ngoungou E.-B.⁷, Godreuil S.^{3,4,6}, ¹Omar Bongo Ondimba Military Teaching Hospital, Gabon; ²Interdisciplinary Medical Research Center of Franceville, Gabon; ³University Hospital of Montpellier, France; ⁴Research Institute for Development, National Centre for Scientific Research, University of Montpellier, France; ⁵Department of Medical Bacteriology and Virology, National Reference Laboratory for Antimicrobial Resistance, University Hospital Centre Sanou Sourou, Bobo Dioulasso, Burkina; ⁶Research Institute for Development: Antimicrobial Resistance in Burkina Faso, Montpellier, France; ⁷Department of Epidemiology, Biostatistics and Medical Informatics/Research Unit in Epidemiology of Chronic Diseases and Environmental Health, Faculty of Medicine, University of Health Sciences, Libreville, Gabon

Novel strategy for overcome resistance: native postbiotics synergize with antibiotic (12 min)

Mahdi Rohani, Pasteur Institute of Iran

Combating to the spread of antimicrobial-resistant microorganisms in food products in Russia and neighboring countries based on a risk-based approach (12 min)

Nina Kulikova, Akimkin V., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Etiology of acute diarrhea and antimicrobial resistance in isolates from patients attending a hospital in Brazzaville, Republic of the Congo (12 min)

Pembe Issamou Mayengue, Demboux Lyelet J.E., National Public Health Laboratory, Republic of the Congo

Monitoring of HIV drug resistance in the Russian Federation (12 min)

Alina Kirichenko, Kireev D., Akimkin V., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

Targeting influenza virus-host interactions: a drug repurposing strategy for broad-spectrum antiviral discovery (12 min)

Parvaneh Mehrbod, Pasteur Institute of Iran

Multimedia Hall 2

SESSION 11

15:30–18:00

Systems and synthetic biology to solve problems in epidemiological surveillance

Chairman

Vadim Govorun, Academician of the RAS

Technological platform for genome synthesis (15 min)

Gleb Fisunov, Research Institute for Systems Biology and Medicine, Moscow, Russia

Regulation of bacterial cell metabolism: glycolysis in *Mycoplasma gallisepticum* in vivo and in vitro (15 min)

Daria Matyushkina, Research Institute for Systems Biology and Medicine, Moscow, Russia

Pangenomic analysis of protective antiphage systems of *Klebsiella pneumoniae* clinically significant strains in the collection of the St. Petersburg Pasteur Institute (15 min)

Anna Maikova, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Systems proteogenomic analysis of clinical isolates (15 min)

Ivan Chudinov, Research Institute for Systems Biology and Medicine, Moscow, Russia

Characterization of the baseline activity of anti-phage defense systems in *Vibrio cholerae* as a step towards rational design of synthetic bacteriophages (15 min)

Anfisa Kozyreva¹, Rybalchenko D.², Polunina T.², Kotova N.², Kovalenko A.¹, Matyushkina D.¹; ¹Research Institute for Systems Biology and Medicine, Moscow, Russia; ²Russian Anti-Plague Institute "Microbe" of Rospotrebnadzor, Saratov, Russia

In vitro evaluation of new recombinant pertussis vaccine prototypes (15 min)

Varvara Shokina, Research Institute for Systems Biology and Medicine, Moscow, Russia

Genetic immunization: achievements and prospects for creating effective drugs for the prevention of infectious diseases (15 min)

Andrey Rudometov, Karpenko L., Ilyichev A., State Research Center of Virology and Biotechnology "Vector" of Rospotrebnadzor, Koltsovo, Novosibirsk Region, Russia

The phenomenon of hereditary transmission of chromosomally integrated *Roseolovirus humanbeta6a/b*: from research to clinical application (15 min)

Elvira Domonova, Akimkin V., Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia

White Hall

ROUND TABLE

Pathogenesis of infection X

15:30–16:45

Moderator

Anna Popova, DSc (Medicine), Professor, Head of Federal Service for Surveillance on Consumer Rights Protection and Human Well-being, Chief State Sanitary Officer of the Russian Federation

Participants of the Discussion:

Vasiliy Akimkin, Academician of the RAS, DSc (Medicine), Professor, Director of the Central Research Institute of Epidemiology of Rospotrebnadzor, Moscow, Russia;

Alexander Rumyantsev, Academician of the RAS, DSc (Medicine), Professor, Dmitry Rogachev National Medical Research Center for Pediatric Hematology and Oncology of the Ministry of Health of the Russian Federation, Moscow, Russia;

Vladimir Kuttyrev, Academician of the RAS, DSc (Medicine), Professor, Director of Russian Anti-Plague Institute “Microbe” of Rospotrebnadzor, Saratov, Russia;

Vitaly Zverev, Academician of the RAS, DSc (Medicine), Professor, I.I. Mechnikov Research Institute of Vaccines and Sera, Moscow, Russia;

Areg Totolian, Academician of the RAS, DSc (Medicine), Professor, Director of St. Petersburg Pasteur Institute, St. Petersburg, Russia;

Vadim Govorun, Academician of the RAS, DSc (Biology), Professor, Director of the Research Institute for Systems Biology and Medicine of Rospotrebnadzor, Moscow, Russia.

White Hall

SESSION 12

Current issues of HPV infection

16:45–18:00

Co-chairs

Lyudmila Lyalina, DSc (Medicine), Professor
Utkir Yodgorov, PhD (Republic of Uzbekistan)

Epidemiological features and vaccine prevention of papillomavirus infection (15 min)

Lyudmila Lyalina, St. Petersburg Pasteur Institute, St. Petersburg, Russia

Epidemiologie moléculaire des HPV à haut risque oncogène dans les cancers viro-induits du col de l'utérus (15 min)

Donatien Moukassa, **Ossibi Ibara R.B.**, **Mouamba F.**, **Boumba A.M.**, **Sirime M.**, Université Marien N’Gouabi, République du Congo

Strategy for preventing the spread of certain cancers caused by HPV in the Republic of Uzbekistan (15 min)

Utkir Abdulla ugli Yodgorov, Center for Professional Retraining and Advanced Training in the Field of Sanitary-Epidemiological Well-Being and Public Health, Republic of Uzbekistan

Classification of the Human Papillomavirus in light of its changing epidemiology (15 min) [in record]

Carmen Luisa Loureiro Mariño^{1,2}, Marin A.², Jaspe R.C.¹, Sulbarán Y.F.¹, Moros Z.C.³, Pereira I.C.², Aray H.², Zambrano J.L.³, Rangel H.R.¹, Cortiñas P.⁴, León M.⁵, Fernández L.⁵, Pujol F.H.¹; ¹Molecular Virology Laboratory, Venezuelan Institute for Scientific Research, Venezuela; ²Genetic and Forensic Studies Unit, Venezuelan Institute for Scientific Research, Venezuela; ³Cellular Virology Laboratory, Venezuelan Institute for Scientific Research, Venezuela; ⁴University Clinical Hospital of Caracas, Hospital Dr. Miguel Pérez Carreño

Great Hall

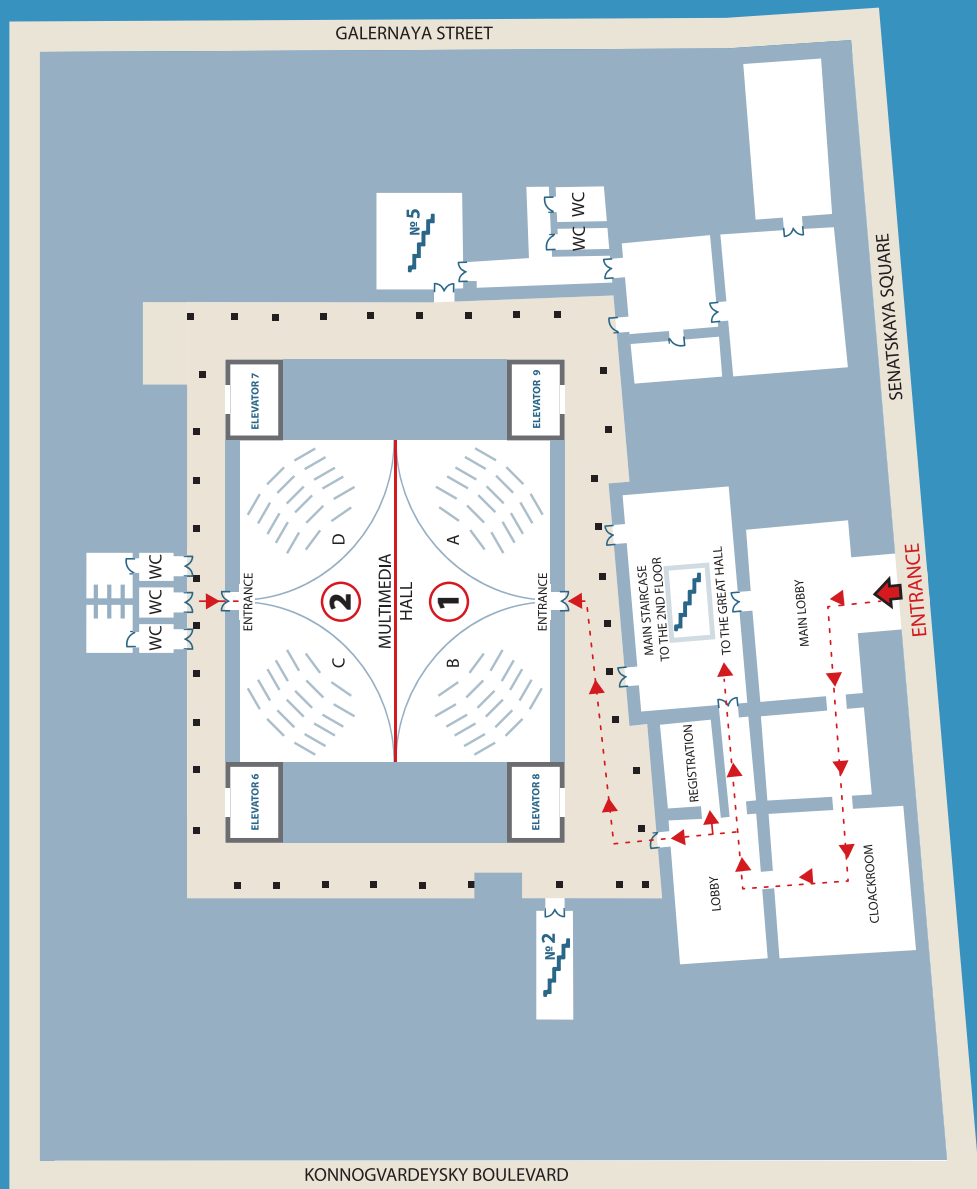
SUMMARIZING. CLOSING CEREMONY

18:00

Co-chairs

Anna Popova, DSc (Medicine), Professor
Vladimir Kuttyrev, Academician of the RAS

1ST FLOOR



2ND FLOOR



