

The 110th anniversary
of the Institute's foundation (1908)



The 95th anniversary of naming
the Institute after Pasteur (1923)

PROGRAM

International conference, dedicated
to the 110th anniversary of St. Petersburg Pasteur Institute
and to the 95th anniversary of naming the Institute after Pasteur

**“MOLECULAR BASES OF EPIDEMIOLOGY, DIAGNOSTICS, PREVENTION
AND TREATMENT OF INFECTIOUS DISEASES”**

St. Petersburg
4 – 6 December 2018

ORGANIZERS

- Federal Service for Surveillance on Consumer Rights Protection and Human Well-being
 - The Russian Academy of Sciences
 - Committee on Science and Higher Education of the Government of St. Petersburg
 - Health Committee of the Government of St. Petersburg
-
- St. Petersburg Pasteur Institute
 - Institut Pasteur (Paris)
 - Institut Pasteur International Network
-
- St. Petersburg and Leningrad Region Branch of All-Russian Scientific Society of Epidemiologists, Microbiologists and Parasitologists
 - All-Russian Scientific Society of Epidemiologists, Microbiologists and Parasitologists
 - Russian Society for Immunology
 - Russian Association of Allergologists and Clinical Immunologists, St. Petersburg Regional Branch

GREETING

Dear Pasteurians and participants of the International Conference “Molecular Bases of Epidemiology, Diagnosis, Prevention and Treatment of Infectious Diseases”!

In 2018 St. Petersburg Pasteur Institute celebrates two dates at once: the 110 years since establishment of the Institute and 95 years since its naming after Louis Pasteur.

Many generations of Pasteurians in the selfless work has created the glorious pages in the history of the country's epidemiological service and have greatly contributed to the fight against infectious diseases. The new generation of Pasteurians continues their service to science, health protection, sanitary and epidemiological well-being of the population of the Russian Federation.

The Institute's studies in the field of molecular epidemiology, epidemiological surveillance and development of modern technologies are well known. In this reason the Conference is dedicated to molecular bases of epidemiology, diagnosis, prevention and treatment of many infectious diseases. Its programme includes plenary and section sessions, poster sessions and satellite events such as:

- 2nd St. Petersburg Symposium on Tuberculosis and Mycobacteria: Molecular Aspects;
- 10th Symposium with International Participation “HIV-infection and Immunosuppression”;
- Workshop of WHO polio laboratories with the participation of the institutes of the Institut Pasteur International Network: “Enterovirus diseases following poliomyelitis eradication”.

St. Petersburg Pasteur Institute has been the leading Russian institute in the field of epidemiology, microbiology, virology and immunology. The scientific authority of the Institute is well known in Russia and abroad. Since 1993 the Institute has been a full member of the Institut Pasteur International Network. Due to the wide international contacts of the Institute, more than 80 colleagues from 33 countries (Albania, Algeria, Armenia, Belarus, Belgium, Bulgaria, Great Britain, Vietnam, Guinea, Spain, Italy, Kazakhstan, China, Cote d'Ivoire, Latvia, Morocco, Moldova, Netherlands, Norway, Poland, Portugal, Senegal, Slovenia, USA, Thailand, Finland, France, Central African Republic, Switzerland, Sweden, Estonia, South Africa, Japan) belonging to 4 continents will participate in the Conference.

The practical aspects of issues that will be discussed are also very important. In particular, “The Programme for Hepatitis B Elimination in North-Western Federal District of Russia” was developed and successfully implemented upon the initiative of the St. Petersburg Pasteur Institute. The results and prospects of this Programme will be discussed at the Workshop during the Conference.

It is a great pleasure to see the young scientists who will actively participate in the Conference with oral and poster presentations and who will be nominated for 2 awards.

Dear participants of the Jubilee Conference! I wish you fruitful meaningful work, new achievements, good health and well-being.



Head, Federal Service for Surveillance on
Consumer Rights Protection and Human
Well-being (Rospotrebnadzor), Chief State
Sanitary Physician of the Russian Federation,
MD, PhD, DSci, professor

Anna Popova

ORGANIZING COMMITTEE

Chair:

Anna Popova – Head, Federal Service for Surveillance on Consumer Rights Protection and Human Well-being (Rospotrebnadzor), Chief State Sanitary Physician of the Russian Federation, MD, PhD, DSci, professor

Co-Chair:

Areg Totolian – Director, St. Petersburg Pasteur Institute, academician of RAS, MD, PhD, DSci, professor

Members of Organizing Committee:

Vyacheslav Smolensky – Deputy Head, Federal Service for Surveillance on Consumer Rights Protection and Human Well-being (Rospotrebnadzor), PhD

Elena Ezhlova – Head, Epidemiological Surveillance Department, Rospotrebnadzor

Natalia Bashketova – Head, Department of Federal Service for Surveillance on Consumer Rights Protection and Human Well-being in St. Petersburg, Chief Sanitary Physician of St. Petersburg

Olga Istorik – Head, Department of Federal Service for Surveillance on Consumer Rights Protection and Human Well-being in Leningrad Region, Chief Sanitary Physician of Leningrad Region

Vasily Akimkin – Acting Director, Central Research Institute of Epidemiology, academician of RAS, MD, PhD, DSci, professor

Nikolay Belyakov – Head, North-West Regional Center for Control and Prevention of AIDS, academician of RAS, MD, PhD, DSci, professor

Francis Delpeyroux – Head, Laboratory of Biology of Enteric Viruses, Institut Pasteur (Paris, France)

Marc Jouan – International Vice-President Institut Pasteur (Paris, France)

Yuri Lobzin – Scientific Research Institute of Children's Infections, academician of RAS, MD, PhD, DSci, professor

Victor Maleev – Adviser to the Director, Central Research Institute of Epidemiology, academician of RAS, MD, PhD, DSci, professor

François-Xavier Weill – Head, Laboratory of Enteric Bacterial Pathogens, Institut Pasteur (Paris, France)

Vitaly Zverev – Director, I.I. Mechnikov Scientific Research Institute of Vaccines and Serums, academician of RAS, MD, PhD, DSci, professor

PROGRAMME AND EDITORIAL COMMITTEE

- Anna Afinogenova** – Head, Testing Laboratory Center, leading researcher, MD, PhD, DSci
- Elena Esaulenko** – Head, Laboratory of Viral Hepatitis, St. Petersburg Pasteur Institute, MD, PhD, DSci, professor
- Maina Bichurina** – Head, Laboratory of Etiology and Control of Viral Infections, St. Petersburg Pasteur Institute, MD, PhD, DSci
- Vladimir Dedkov** – Deputy Director for Research, St. Petersburg Pasteur Institute, PhD
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- Lyudmila Kraeva** – Head, Laboratory of Medical Bacteriology, St. Petersburg Pasteur Institute, MD, PhD, DSci
- Irina Lavrentieva** – Head, Laboratory of Experimental Virology, St. Petersburg Pasteur Institute, MD, PhD, DSci
- Lyudmila Lyalina** – Head, Laboratory of Epidemiology of Infectious and Non-Infectious Diseases, St. Petersburg Pasteur Institute, MD, PhD, DSci, professor
- Igor Mokrousov** – Head, Laboratory of Molecular Epidemiology and Evolutionary Genetics, St. Petersburg Pasteur Institute, MD, PhD, DSci,
- Natalia Romanenkova** – Leading Researcher, Laboratory of Etiology and Control of Viral Infections, St. Petersburg Pasteur Institute, PhD
- Natalia Roschina** – Head, Laboratory for the Identification of Pathogens, St. Petersburg Pasteur Institute, PhD
- Alexander Semenov** – Deputy Director for Innovation, Head, Laboratory of HIV immunology and Virology, St. Petersburg Pasteur Institute, MD, PhD, DSci
- Nikolay Tokarevich** – Head, Laboratory of Zoonotroponozes, St. Petersburg Pasteur Institute, MD, PhD, DSci, professor
- Galina Trifonova** – Scientific Secretary, St. Petersburg Pasteur Institute, PhD
- Ekaterina Voskresenskaya** – Leading Researcher, Laboratory of Medical Bacteriology, St. Petersburg Pasteur Institute, PhD
- Vyacheslav Verbov** – Head, Department of New Technologies, St. Petersburg Pasteur Institute, MD, PhD, DSci
- Vladimir Zarubaev** – Leading Researcher, Laboratory of Experimental Virology, St. Petersburg Pasteur Institute, PhD

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Afanasyev S.A.
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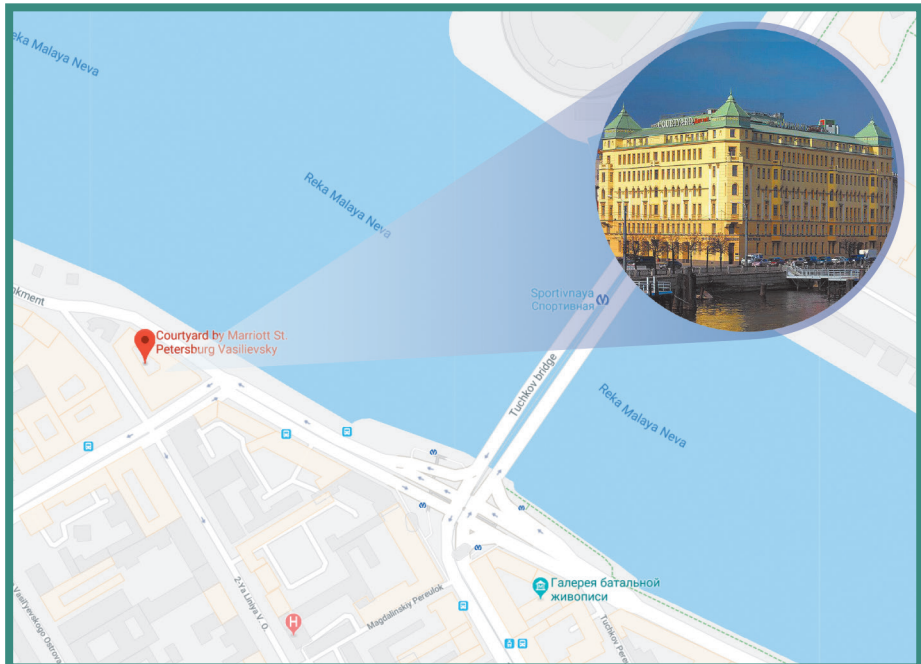
Voshcheva M.S.
Drobyshevskaya V.G.
Muradyan A.Ya.

Pistsova I.A.
Semenova O.I.
Smirnova K.A.
Freyman A.B.

VENUE

Hotel Marriott Courtyard St. Petersburg Vasilievsky

Address: 2nd line of Vasilievsky Island, 61/30, St. Petersburg, 191178, Russian Federation



AWARDS

Young Investigators Award

The authors (under 33 years old) whose presentations were included in the Conference Programme will be considered for this award.

The evaluation of the presentations made by the Conference participants will be also taken into consideration by the commission.

Best Poster Award

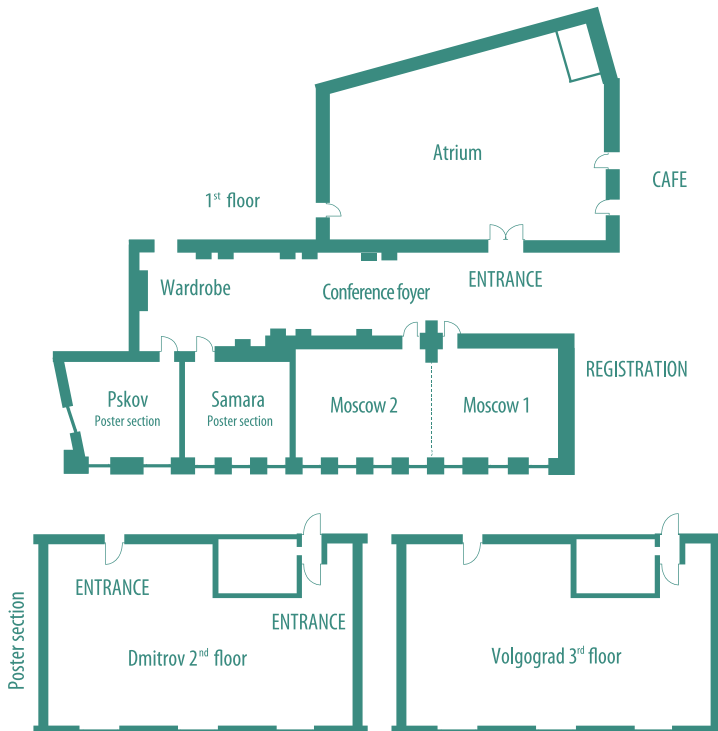
Each author whose poster was accepted for poster presentation and presented at the poster session will be considered for this award. The Conference participants can evaluate the posters by completing the questionnaire at the Conference Venue.

There will be 2 Poster Sessions during the Conference:

- Poster Session 1: Wednesday, December 5th, 2018; 9:00–16:00; 1 floor (Each presenting author should be near its poster at 13:00 until 14:00).
- Poster Session 2 of 2nd St. Petersburg Symposium on Tuberculosis and Mycobacteria: Molecular Approach: Wednesday, 5 December 5th, 2018; 9:00–16:00; 2 floor.

The posters should be hung by the authors on December 5, 2018 at 9:00 until 12:00 and retrieved on December 6, 2018 at 12:00 until 15:00.

HALLS' PLAN



MEETINGS SCHEDULE

December 4th 2018	
9:00–11:00	Registration. Welcome Coffee Break
	Hall "Atrium" working language: russian, english – simultaneous translation
11:00–11:40	Opening ceremony
11:40–15:00	Plenary session
15:00–16:00	Lunch
16:00–18:00	Meeting, dedicated to the 110 th anniversary of St. Petersburg Pasteur Institute and 95 th anniversary of naming it after Pasteur
18:00–19:00	Buffet

December 5th 2018				
	Hall "Atrium" working language: russian	Hall "Moscow 1" working language: russian	Hall "Moscow 2" working language: russian	Hall "Dmitrov" working language: english
9:00–13:00	10 th Symposium with International Participation "HIV-infection and Immunosuppression" (10 th Anniversary conference)	Regional Meeting "Implementation of the Programme for Hepatitis B Elimination in North-Western Federal District of Russia: History, Results of the 2 nd Stage, Prospects"	Epidemiology of whooping cough and new opportunities for vaccine prophylaxis	2 nd St. Petersburg Symposium on Tuberculosis and Mycobacteria: Molecular Approach
13:00–14:00	Lunch			
14:00–17:30	10 th Symposium with International Participation "HIV-infection and Immunosuppression" (continuation) (till 18:00)	Regional Meeting "Implementation of the Programme for Hepatitis B Elimination in North-Western Federal District of Russia: History, Results of the 2 nd Stage, Prospects"	Session of Young Investigators	2 nd St. Petersburg Symposium on Tuberculosis and Mycobacteria: Molecular Approach (till 18:30)
				Satellite event: Enterovirus diseases following poliomyelitis eradication (till 18:00)

December 6 th 2018				
	Hall "Atrium" working languages: russian, english – simultaneous translation	Hall "Moscow 1" working language: russian	Hall "Moscow 2" working language: russian	Hall "Dmitrov" working language: english
9:00 – 11:30	New technologies in diagnostics, prevention and treatment of viral hepatitis	Yersiniosis	Molecular technologies in epidemiology and diagnostics of enteric infections	10 th Symposium with International Participation "HIV-infection and Immunosuppression" (10 th Anniversary conference)
12:00 – 13:00	Zoonotic and parasitic infections	Yersiniosis (continuation)	Molecular technologies in epidemiology and diagnostics of enteric infections (continuation)	Problems of microorganisms antibiotic-resistance: issues and solutions
13:00 – 14:00	Lunch			
14:00 – 16:00	Zoonotic and parasitic infections (continuation)	Particularly dangerous and rare infections	New drugs for the chemotherapy of infectious diseases	Problems of microorganisms antibiotic-resistance: issues and solutions (continuation)
16:30 – 18:00	Zoonotic and parasitic infections (continuation)	Particularly dangerous and rare infections (continuation)	Particular issues of infectology	Problems of microorganisms antibiotic-resistance: issues and solutions (continuation)
18:00	Hall "Atrium" CLOSING OF THE CONFERENCE AWARDS WINNERS			

9:00–11:00	Registration. Welcome Coffee Break
<p>HALL “ATRIUM” Opening ceremony 11:00–11:40</p>	
11:00–11:40	<p>Anna Popova, MD, PhD, DSci, professor, Head of the Federal Service for Surveillance on Consumer Rights Protection and Human Well-being (Rospotrebnadzor), Chief State Sanitary Physician of the Russian Federation (Moscow)</p>
	<p>Stewart Cole, professor, President of Institut Pasteur (Paris, France)</p>
<p>HALL “ATRIUM” Plenary session 11:40–15:00</p>	
<p>Co-chairs: Anna Popova, MD, PhD, DSci, professor (Moscow); Areg Totolian, academician of RAS (St. Petersburg); Stewart Cole, professor (Paris, France)</p>	
11:40–12:00	<p>Elena Ezhlova, PhD, Director of Epidemiological Surveillance Department, Federal Service for Surveillance on Consumer Rights Protection and Human Well-being (Rospotrebnadzor) (Moscow)</p> <p>The current epidemiological situation in the World. Joint efforts in the fight against infectious diseases</p>
12:00–12:20	<p>Vitaly Zverev, academician of RAS, MD, PhD, DSci, professor, I.I. Mechnikov Scientific Research Institute of Vaccines and Sera (Moscow)</p> <p>Vaccines for activation of the innate immune response</p>
12:20–12:40	<p>Vladimir Kutryev, academician of RAS, MD, PhD, DSci, professor; Eroshenko G.A., Scherbakova S.A., Russian Research Anti-Plague Institute “Microbe” (Saratov)</p> <p>Plague. Modern trends in the epidemiology, laboratory diagnosis and prevention</p>
12:40–13:00	<p>Ivan Dyatlov, academician of RAS, MD, PhD, DSci, professor, State Research Center for Applied Microbiology and Biotechnology (Obolensk)</p> <p>Scientific and applied challenges in modern medical microbiology</p>
13:00–13:20	<p>Alexey Tutelian, corresponding member of RAS, MD, PhD, DSci, professor; Akimkin V.G., academician of RAS, MD, PhD, DSci, professor; Shagin D.A., PhD, Central Research Institute of Epidemiology (Moscow)</p> <p>Role of molecular methods in the epidemiology of nosocomial infectious diseases</p>
13:20–13:40	<p>Yuri Lobzin, academician of RAS, MD, PhD, DSci, professor, Children’s Scientific and Clinical Center of Infectious Diseases (St. Petersburg)</p> <p>Achievements and the challenges in the study of infectious diseases in children</p>

13:40–14:00	Mikhail Mikhailov , corresponding member of RAS, MD, PhD, DSci, professor, I.I. Mechnikov Scientific Research Institute of Vaccines and Serums (Moscow) Recent advances in the study and prevention of viral hepatitis (2018)
14:00–14:20	Roman Kozlov , corresponding member of RAS, MD, PhD, DSci, professor, Institute of Antimicrobial Chemotherapy (Smolensk) Antibiotic resistance as a threat to national security
14:20–14:40	Noël Tordo , professor, Institut Pasteur in Guinea (Conakry, Republic of Guinea) Rabies and Ebola: differences and similarities in the “One Health” concept
14:40–15:00	Lyudmila Lyalina , MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg) Molecular epidemiology of human papillomavirus infection and vaccination against HPV-related diseases
15:00–16:00	BREAK
<p style="text-align: center;">HALL “ATRIUM”</p> <p style="text-align: center;">Meeting, dedicated to the 110th anniversary of St. Petersburg Pasteur Institute and 95th anniversary of naming it after Pasteur</p> <p style="text-align: center;">16:00–18:00</p> <p>Co-chairs: Areg Totolian, academician of RAS (St. Petersburg); Anna Popova, MD, PhD, DSci, professor (Moscow); Marc Jouan (Paris, France)</p>	
16:00–16:30	Areg Totolian , academician of RAS, MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg) Unexpected pages of St. Petersburg Pasteur Institute’s history
16:30–17:00	Stewart Cole , professor, President of Institut Pasteur (Paris, France) Institut Pasteur: a new strategy for 2019–2023 and the partnership with St. Petersburg Pasteur Institute
17:00–17:30	Valery Chereshnev , academician of RAS, MD, PhD, DSci, professor, Institute of Immunology and Physiology of Ural Branch of Russian Academy of Sciences (Yekaterinburg) Louis Pasteur, Ilya Mechnikov and Pasteur Institute in Russia
17:30–18:00	CONGRATULATORY REMARKS
18:00–19:00	BUFFET

HALL "ATRIUM"

10th Symposium with International Participation
"HIV-infection and Immunosuppression"

9:00–17:30

Presidents: **S.F. Bagnenko**, academician of RAS (St. Petersburg);
N.A. Belyakov, academician of RAS (St. Petersburg);
A.A. Totolian, academician of RAS (St. Petersburg);
V.A. Chereshev, academician of RAS (Yekaterinburg)

Session 1. Important issues of HIV medicine

9:00–11:30

Co-chairs: **Sergei Bagnenko**, academician of RAS (St. Petersburg);
Nikolai Belyakov, academician of RAS (St. Petersburg);
Valery Chereshev, academician of RAS (Yekaterinburg);
Ralph DiClemente, professor (USA)

9:00–9:20	Nikolai Belyakov , academician of RAS, North-West AIDS Center (St. Petersburg); <i>Rassokhin V., MD, PhD, DSci, Pavlov First St. Petersburg State Medical University (St. Petersburg); Bobkova M., MD, PhD, DSci, N.F. Gamaleya National Research Center of Epidemiology and Microbiology, Ministry of Health (Moscow)</i> 10 th anniversary of the journal "HIV-infection and Immunosuppression". Problems and solutions
9:20–9:40	Valery Chereshev , academician of RAS; <i>Shmagel K., professor; Gavrilova A., professor, Institute of Immunology and Physiology of Ural Branch of Russian Academy of Sciences (Yekaterinburg)</i> Pathophysiology of activation of the immune system in HIV-infection
9:40–10:00	Konstantin Zhdanov , corresponding member of RAS, MD, PhD, DSci, professor, <i>S.M. Kirov Military Medical Academy (St. Petersburg)</i> Modern treatment for chronic hepatitis C
10:00–10:20	Tatiana Trofimova , professor, Pavlov First St. Petersburg State Medical University (St. Petersburg) Radiology of HIV-infection
10:20–10:40	Andrei Simbirtsev , corresponding member of RAS, State Research Institute of Highly Pure Biopreparations, FMBA of Russia (St. Petersburg) The system of immunity in HIV-infection
10:40–11:00	Svyatoslav Plavinsky , professor, North-Western State Medical University named after I.I. Mechnikov (St. Petersburg) Clinical and medical-social evaluation of the epidemic trajectory
11:00–11:20	Natalia Sizova , MD, PhD, DSci, St. Petersburg AIDS Center (St. Petersburg) Evolution of ART: changing treatment priorities. New challenges and new goals
11:30–12:00	BREAK

Session 2. Most recent advances in the area of socially significant infections

12:00–14:00

Co-chairs: **Victor Veber**, academician of RAS (Novgorod the Great);
Vadim Rassokhin, MD, PhD, DSci (St. Petersburg); **Tatiana Trofimova**, professor (St. Petersburg);
Elena Gasich, MD, PhD, DSci (Minsk, Republic of Belarus)

12:00–12:20

Anna Samarina, MD, PhD, DSci, St. Petersburg AIDS Center (St. Petersburg);
Yastrebova E.B., PhD., Pavlov First St. Petersburg State Medical University
(St. Petersburg); Mozaleva O.L., St. Petersburg AIDS Center (St. Petersburg)
 Solving maternal and child's care problems in HIV-infection

12:20–12:40

Marina Bobkova, MD, PhD, DSci, N.F. Gamaleya National Research Center
 of Epidemiology and Microbiology, Ministry of Health (Moscow)
 Protease inhibitors and HIV drug resistance

12:40–13:00

Alexei Yakovlev, professor; *Musatov V., CMedSc, S.P. Botkin Clinical Infectious*
Disease Hospital (St. Petersburg)
 Treating complicated cases of socially significant infections
 in the specialized inpatient setting. Analysis of multiyear experience

13:00–13:20

Margarita Rybakova, MD, PhD, DSci, professor, Pavlov First St. Petersburg State
 Medical University (St. Petersburg); *Karev V., MD, PhD, DSci, Head of the Tissue and*
Pathomorphology Tests' Department, Research Institute of Children's Infectious
Diseases, FMBA of Russia (St. Petersburg)
 Pathomorphology of viral hepatitis C

13:20–13:40

Elena Gasich, MD, PhD, DSci, Republican Scientific and Practical Center
 for Epidemiology and Microbiology (Minsk, Republic of Belarus)
 Molecular epidemiology of HIV-infection

13:40–14:00

Elena Reschikova, GSK Medical Advisor (St. Petersburg)
 Review of the current HIV treatment clinical guidelines

14:00–15:00

LUNCH

Session 3. Fundamental and applied research issues of contemporary infectology

15:00–18:00

Co-chairs: **Andrei Simbirtsev**, corresponding member of RAS (St. Petersburg);
Alexei Kovelénov, MD, PhD, DSci (St. Petersburg); **Elena Yastrebova**, MD, PhD, DSci (St. Petersburg)

15:00–15:20

Vadim Rassokhin, MD, PhD, DSci, Pavlov First St. Petersburg State Medical University
 (St. Petersburg)
 Areas of research done by the Department of Socially Significant Infections

15:20–15:40

Elena Yastrebova, MD, PhD, DSci, Pavlov First St. Petersburg State Medical University
 (St. Petersburg)
 Training of physicians in socially significant infections

15:40–16:00

Elena Stepanova, professor; *Leonova O., CMedSc; Shelomov A., St. Petersburg AIDS*
Center (St. Petersburg)
 Critical conditions in HIV-infection

16:00–16:30

BREAK

16:30–16:50	Alexander Panteleev , MD, PhD, DSci, TB Hospital No. 2 (St. Petersburg); Azovtseva O., CMedSc (Novgorod the Great) HIV-infection, tuberculosis and viral hepatitis as the most complicated comorbidity option
16:50–17:10	Vsevolod Zinzerling , professor, Almazov National Medical Research Center (St. Petersburg) Pathomorphology of HIV-infection
17:10–17:25	Alexander Zurochka , MD, PhD, DSci, professor, Institute of Immunology and Physiology, RAS Ural Branch (Chelyabinsk) Capabilities of flow cytometry with visualization for research in the area of infectious diseases
17:25–18:00	Discussion. Closing
<p style="text-align: center;">HALL “DMITROV” 2nd St. Petersburg Symposium on Tuberculosis and Mycobacteria: Molecular Approach 9:00–18:30</p> <p>Symposium Chairman: Igor Mokrousov, PhD, DSci (St. Petersburg, Russia) Opening of the Symposium 9:00–9:15</p>	
9:00–9:15	Introductory speech Igor Mokrousov , PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg) Areg A. Totolian , academician of RAS, MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg)
<p style="text-align: center;">Section 1. Evolution and phylogenomics</p> <p>Co-chairs: Iñaki Comas, PhD (Valencia, Spain); Igor Mokrousov, PhD, DSci (St. Petersburg)</p>	
9:15–9:40	Iñaki Comas , PhD, Institute of Biomedicine (Valencia, Spain) Genomic epidemiology of tuberculosis: from within host evolution to global migration patterns
9:40–10:05	Tao Luo , PhD, Sichuan University (Chengdu, China) Evolution and transmission of <i>Mycobacterium tuberculosis</i> resistance to fluoroquinolones
10:05–10:25	Igor Mokrousov , PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg) Clichés and dogmas in molecular TB research
10:25–10:45	Egor Shitikov , PhD, Federal Research and Clinical Centre of Physical-Chemical Medicine (Moscow) Role of IS6110 in micro- and macroevolution of <i>Mycobacterium tuberculosis</i> Lineage 2

10:45–11:05	Prasit Palittapongarnpim , professor, Mahidol University and the National Science and Technology Development Agency (Bangkok, Thailand) Bacterial WGS and host genome-wide SNP analysis of tuberculosis patients in Thailand
11:05–11:30	BREAK
<p>Section 2. Whole-genome sequencing and personalized medicine</p> <p>Co-chairs: Vlad Nikolayevskyy, PhD (London, UK); Dario Garcia de Viedma, PhD (Madrid, Spain)</p>	
11:30–11:55	Dick van Soolingen , professor, National Institute for Public Health and the Environment (Bilthoven, The Netherlands) International validation of analysis pipelines for Whole Genome Sequencing data of <i>Mycobacterium tuberculosis</i> isolates
11:55–12:20	João Perdigão , PhD, Universidade de Lisboa (Lisboa, Portugal) Looking inside the forest: from classical genotyping of <i>Mycobacterium tuberculosis</i> to Whole Genome Sequencing in high multidrug resistance settings
12:20–12:45	Hanna Soini , PhD, National Institute for Health and Welfare (Helsinki, Finland) WGS in routine diagnostics of tuberculosis – prediction of drug resistance and genotyping
12:45–13:00	Anzaan Dippenaar , PhD, Stellenbosch University (Cape Town, South Africa) Whole genome sequencing sheds light on the transmission dynamics of a multi-drug resistant <i>Mycobacterium tuberculosis</i> outbreak over 23 years in a high incidence setting
13:00–14:00	LUNCH
14:00	POSTER SESSION
13:00–15:00	Satellite event: 2 nd meeting of the Consortium “Fight Against TB in Central and Eastern Europe” (FATE) Co-chairs: Tomasz Jagielski (Poland), Igor Mokrousov (Russia)
15:00–15:25	Dario Garcia De Viedma , PhD, Clinical Microbiology and Infectious diseases Department, Gregorio Marañón University Hospital; CIBER Enfermedades Respiratorias CIBERES (Madrid, Spain) Simplifying NGS approaches to optimize tracing of transborder spread of <i>Mycobacterium tuberculosis</i>
15:25–15:45	Bhupinder Hundle , Oxford Nanopore Technologies (UK) Through the Nanopore – an Introduction to Nanopore Sequencing. Actual aspects for epidemiology and diagnosis

15:45–16:05	Margo Diricks , Applied Maths (Sint-Martens-Latem, Belgium) Whole genome sequence based resistance prediction and molecular typing of <i>Mycobacterium tuberculosis</i> complex (MTBC) strains in BioNumerics
16:05–16:30	BREAK
<p>Section 3. Molecular epidemiology and molecular diagnostics</p> <p>Co-chairs: Olga Narvskaya, MD, PhD, DSci, professor (St. Petersburg); Renate Ranka, PhD (Riga, Latvia)</p>	
16:30–16:50	Aleksei Korobitsyn , PhD, WHO Global TB Program (Geneva, Switzerland) Global WHO policies on molecular methods for TB diagnosis
16:50–17:10	Renate Ranka , PhD, Latvian Biomedical Research and Study Centre; Riga Stradiņš University (Riga, Latvia) Molecular epidemiology of tuberculosis in Latvia
17:10–17:30	Yuriy Skiba , PhD, Aitkhozhin Institute of Molecular Biology and Biochemistry; Almaty Branch of National Center for Biotechnology at Central Reference Laboratory (Almaty, Kazakhstan) Molecular epidemiology of tuberculosis in Kazakhstan, 2006–2018
17:30–17:45	Andrei Gabrielian , PhD, National Institute of Allergy and Infectious Diseases, National Institutes of Health (Rockville, MD, USA) TB Portals Program: Data-driven multi-national consortium against drug-resistant tuberculosis
17:45–18:00	Silva Tafaj , MD, PhD, University Hospital “Shefqet Ndroqi” (Tirana, Albania) Molecular epidemiology of TB in Albania
18:00–18:15	Anna Vyazovaya , PhD, St. Petersburg Pasteur Institute (St. Petersburg) Population structure of <i>Mycobacterium tuberculosis</i> in Russian regions bordering EU countries
18:15–18:30	Tatiana Umpeleva , PhD, Ural branch of National Medical Research Center of Tuberculosis and Infectious Diseases (Ekaterinburg) Molecular features of <i>Mycobacterium tuberculosis</i> strains from patients living in closed city in the Ural region, Russia
18:30–18:45	Imane Chaoui , MD, Centre National de l’Energie, des Sciences et Techniques Nucléaires (Rabat, Morocco) Genotyping of multidrug and pre-extensively drug-resistant <i>Mycobacterium tuberculosis</i> isolates from a high TB incidence area in Morocco
18:45	Discussion

HALL "MOSCOW 1"

Regional Meeting "Implementation of the Programme for Hepatitis B Elimination in North-Western Federal District of Russia: History, Results of the 2nd Stage, Prospects"

9:00–17:30

9:00–10:00	Registration
10:00–10:20	<p>Opening of the Meeting</p> <p>Areg Totolian, <i>academician of RAS, MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg)</i></p> <p>Albina Melnikova, <i>PhD, Deputy director of Epidemiological Surveillance Department, Federal Service for Surveillance on Consumer Rights Protection and Human Well-being (Rospotrebnadzor) (Moscow)</i></p>
10:20–10:50	<p>Lyudmila Lyalina, <i>MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg)</i></p> <p>The results of the 2nd stage of implementation of the Programme for hepatitis B elimination in North-Western Federal District of Russia</p>
10:50–11:20	<p>Elena Esaulenko, <i>MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg)</i></p> <p>Frequency and the clinical significance of occult hepatitis B virus infection</p>
11:30–12:00	BREAK
12:00–12:30	<p>Nikolay Pimenov, <i>Chulanov V., MD, PhD, DSci, Central Research Institute of Epidemiology (Moscow)</i></p> <p>Epidemiology of viral hepatitis B in the Russian Federation. Current situation and perspectives of the development of the viral hepatitis registry</p>
12:30–13:00	<p>Alexander Semenov, <i>MD, PhD, DSci; Ostankova Yu.V., St. Petersburg Pasteur Institute (St. Petersburg)</i></p> <p>Occult hepatitis B laboratory diagnostics issues</p>
13:00–14:00	LUNCH
14:00–14:30	<p>Yulia Ostankova, <i>Semenov A.V., MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg)</i></p> <p>Hepatitis B virus identification in the ensuring infectious safety of blood transfusions</p>
14:30–16:00	The Presentations of Specialists of the Departments of Federal Service for Surveillance on Consumer Rights Protection and Human Well-being
16:00–16:30	BREAK
16:30–16:50	The Presentations of Specialists of the Departments of Federal Service for Surveillance on Consumer Rights Protection and Human Well-being
16:50–17:30	Open Discussion

HALL "MOSCOW 2"**Epidemiology of whooping cough and new opportunities
for vaccine prophylaxis****9:00–13:00**

Co-chairs: **Yuri Lobzin**, academician of RAS (St. Petersburg); **Areg Totolian**, academician of RAS (St. Petersburg);
Nataliya Bashketova (St. Petersburg)

9:00–9:20	Yuri Lobzin , academician of RAS, MD, PhD, DSci, professor, Children's Scientific and Clinical Center of Infectious Diseases (St. Petersburg) Whooping cough: old new infection, unsolved problems
9:20–9:40	Olga Lyabis , PhD, Sanofi Pasteur (Lyon, France) Epidemiology of whooping cough: the role of vaccines in disease prevention
9:40–10:00	Lyudmila Lyalina , MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg) Epidemiological evidence for improving pertussis vaccination strategies
10:00–10:20	Anastasia Borisova , Petrova M.S., Afanasiev S.S., Shamsheva O.V., Borisova O.Yu., G.N. Gabrichevsky Moscow Scientific Research Institute of Epidemiology and Microbiology (Moscow) <i>Bordetella holmesii</i> – causative agent of pertussis-like infectious disease
10:20–10:40	Olga Borisova , MD, PhD, DSci; Gadua N.T., Pimenova A.S., G.N. Gabrichevsky Moscow Scientific Research Institute of Epidemiology and Microbiology (Moscow) Characteristics of circulating strains of causative agents of pertussis and pertussis-like diseases
10:40–11:00	Natalia Kurova , PhD, St. Petersburg Pasteur Institute (St. Petersburg) Seroprevalence to <i>Bordetella pertussis</i> among children and adults in St. Petersburg
11:00–11:30	BREAK
11:30–11:50	Irina Babachenko , MD, PhD, DSci, professor, Children's Scientific and Clinical Center of Infectious Diseases (St. Petersburg) Severe cases of whooping cough and sources of infection
11:50–12:10	Marina Petrova , PhD, Novikova L.I., Voronova I.S., Matveevskaya N.S., Volkov A.V., G.N. Gabrichevsky Moscow Scientific Research Institute of Epidemiology and Microbiology Immunoglobulin complex for treatment of whooping cough among young children
12:10–12:30	Susanna Harit , MD, PhD, DSci, professor, Children's Scientific and Clinical Center of Infectious Diseases (St. Petersburg) Current capabilities of vaccination and vaccine strategies
12:30–13:00	Discussion
13:00–14:00	LUNCH

Session of Young Investigators

14:00–17:30

Co-chairs: **Anna Afinogenova**, MD, PhD, DSci (St. Petersburg);
Nikolay Tokarevich, MD, PhD, DSci, professor (St. Petersburg);
Mariana Erofeeva, MD, PhD, DSci (St. Petersburg)

14:00–14:20 **Daria Mezhenkaia**, *Institute of Experimental Medicine (St. Petersburg)*
 Development of prototype of universal influenza vaccine based on live attenuated influenza vaccine viral vector

14:20–14:40 **Elena Agafonova**, *Russian Research Anti-Plague Institute "Microbe" (Saratov)*
 Genomic diversity of non-toxigenic *Vibrio cholerae* El Tor strains and method for differentiation of cholera vibrios with different epidemic significance, using PCR

14:40–15:00 **Elena Suzumova**, *St. Petersburg Pasteur Institute (St. Petersburg)*
 A survey on cases of tick borne encephalitis in St. Petersburg

15:00–15:20 **Julia Panferova**, *St. Petersburg Pasteur Institute (St. Petersburg)*
Coxiella burnetii prevalence in ticks in the Ulyanovsk region

15:20–15:40 **Olga Petrova**, *St. Petersburg Pasteur Institute (St. Petersburg)*
 The clinical, immunological and laboratory parameters in patients with leptospirosis in St. Petersburg

15:40–16:00 **Nadezhda Arefieva**, *Irkutsk State University (Irkutsk)*
 Detection and analysis of CRISPR-Cas systems in plasmids of different *Bacillus thuringiensis* strains

16:00–16:30 **BREAK**

16:30–16:50 **Ekaterina Gradoboeva**, *Omsk State Medical University (Omsk)*
 The results of the research of using a commercial kit for detection the Rabies virus's RNA in the course of evaluation of the infection of the field material

16:50–17:10 **Alexey Paramonov**, *Scientific Center of Family Health and Human Reproduction Problems (Irkutsk)*
 Reconstruction of recombination sites in genomes of genotype 2 hepatitis C virus strains using bioinformatics methods

17:10–17:30 **Diana Valutite**, *Ostankova Yu.V., Semenov A.V., MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg)*
 Development and approbation method of identification mutations the resistance of the hepatitis C virus to direct-acting antiviral agents (DAAs)

HALL "VOLGOGRAD"

Virus infections prevented by vaccination at the stage of eradication or elimination

9:00–14:30

Co-chairs: **Nina Tikhonova**, MD, PhD, DSci, professor (Moscow); **Maina Bitchurina**, MD, PhD, DSci (St. Petersburg); **Magassouba N'Fally** (Conakry, Republic of Guinea)

9:00–9:20	Maina Bitchurina , MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg) Measles and rubella in the North-West of Russia at the stage of elimination
9:20–9:40	Nina Tikhonova , MD, PhD, DSci, professor, G.N. Gabrichevsky Scientific Research Institute of Epidemiology and Microbiology (Moscow) Measles and rubella situation in the Russian Federation at the stage of elimination
9:40–10:00	Magassouba N'Fally , Gamal Abdel Nasser University of Conakry (Conakry, Republic of Guinea) Epidemiological analysis of measles cases in the Republic of Guinea in 2016–2017
10:00–10:15	Anna Toptygina , PhD, DSci, G.N. Gabrichevsky Scientific Research Institute of Epidemiology and Microbiology (Moscow) Features of population immunity against measles and rubella viruses. Why do adults suffer?
10:15–10:30	Irina Lavrentieva , MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg) Study of population immunity against measles and rubella in the Republic of Guinea in the framework of Russian-Guinean collaboration
10:30–10:45	Anna Sominina , MD, PhD, DSci, professor, Smorodintsev Research Institute of Influenza (St. Petersburg) Results of molecular detection and characterization of influenza and other respiratory viruses in Russia, season 2017–2018
10:45–11:00	Olga Ivanova , MD, PhD, DSci, Chumakov Federal Scientific Center for Research and Development of Immune-and-Biological Products (Moscow) Polio Eradication Initiative in the Russian Federation: actual status and challenges after certification of European Region in 2003–2017
11:00–11:30	BREAK
11:30–11:50	Francis Delpeyroux , PhD, Institut Pasteur (Paris, France) Eradication of poliovirus: progress, issues, containment
11:50–12:05	Natalia Romanenkova , PhD, St. Petersburg Pasteur Institute (St. Petersburg) Challenges for Polio Eradication: risk of re-emergence of infection in polio free countries

12:05–12:20	Lyudmila Golitsyna , PhD, I.N. Blokhina Research Institute for Epidemiology and Microbiology (Nizhny Novgorod) Enterovirus infection in the Russian Federation in 2008–2018
12:20–12:35	Elena Sapega , PhD, Khabarovsk Scientific Research Institute of Epidemiology and Microbiology (Rospotrebnadzor (Khabarovsk)) Role of molecular research in the system of epidemiological surveillance for enterovirus infection in the Russian Far East and Siberia
12:35–12:50	Natalia Romanenkova , PhD, St. Petersburg Pasteur Institute (St. Petersburg) Role of different types of enteroviruses in etiology of infection on certain territories of Russia
12:50–13:05	Olga Kanaeva , St. Petersburg Pasteur Institute (St. Petersburg) Enteroviruses isolated from children from migrants' families in the North-West of Russia
13:00–14:00	LUNCH
14:00–14:15	Irina Lavrentieva , MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg) Parvovirus infection at the stage of elimination of measles and rubella: medical and social importance and diffusion in the North-West of Russia
14:15–14:30	Irina Khamitova , St. Petersburg Pasteur Institute (St. Petersburg) Detection of markers of parvovirus infection in the groups at risk
<p>Satellite event: Enterovirus diseases following poliomyelitis eradication</p> <p>14:30–18:00</p> <p>Co-chairs: Francis Delpeyroux, PhD (Paris, France); Romanenkova Natalia, PhD (St. Petersburg)</p>	
14:30–14:50	Francis Delpeyroux , PhD, Institut Pasteur (Paris, France) Cross-antigenic and immunogenic features of canonical and new genogroups of Enterovirus 71
14:50–15:10	Mael Bessaud , Institut Pasteur (Paris, France) Detection of enteroviruses by next-generation sequencing
15:10–15:30	Marie-Line Joffret , Institut Pasteur (Paris, France) Environmental and Human Surveillance of Polioviruses and other Enteroviruses in Madagascar. Impact of the trivalent to bivalent Oral Polio Vaccine Switch
15:30–15:50	Natalia Romanenkova , PhD, St. Petersburg Pasteur Institute (St. Petersburg) Role of sewage surveillance for Polio Eradication Initiative
15:50–16:10	Olga Kanaeva , St. Petersburg Pasteur Institute (St. Petersburg) Enteroviruses isolated from children in the North-West of Russia

16:10–16:30	Ionela Gouandjika-Vasilache , <i>Institut Pasteur de Bangui (Central African Republic)</i> Epidemiological monitoring of poliomyelitis in the Central African Republic from 2004 to 2017 and implementation of poliovirus environmental surveillance in Bangui in 2017
16:30–16:50	Leila Anes Boulahbal , <i>Institut Pasteur d'Algérie (Algeria)</i> Evolution of the VP1 region of type 2 vaccine-derived poliovirus shedding from an immunocompromised Algerian child
16:50–17:10	Thao Nguyen Thi Thanh , <i>Institut Pasteur in Ho Chi Minh City (Viet Nam)</i> Circulation of Coxsackievirus A in hand-foot-mouth disease in Southern Vietnam, 2015–2016
17:10–17:30	Kader Ndiaye , <i>Institut Pasteur de Dakar (Senegal)</i> Emergence of Vaccine-Derived Polioviruses during Ebola Virus Disease Outbreak, Guinea, 2014–2015
17:30–18:00	Edgard Valery Edjougoua , <i>Institut Pasteur de Cote d'Ivoire (Côte d'Ivoire)</i> Process for implementing poliovirus environmental surveillance in Côte d'Ivoire from December 2016 to December 2017

HALL "ATRIUM"

New technologies in diagnostics, prevention and treatment of viral hepatitis

9:00–11:00

Co-chairs: **Elena Esaulenko**, MD, PhD, DSci, professor (St. Petersburg);
Mikhail Mikhailov, corresponding member of RAS (Moscow);
Agata Budkowska, PhD, professor (Paris, France)

9:00–9:20

Agata Budkowska, PhD, professor, Institut Pasteur (Paris, France)
 Challenges and perspectives in Hepatitis C virus (HCV) research in an era of direct acting antiviral (DAA) therapy

9:20–9:40

Elena Esaulenko, MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg)
 Modern antivirals for the treatment of hepatitis C as a substitute for the therapy with interferon in the Russian Federation (real clinical practice)

9:40–10:00

Pascal Pineau, PhD, Institut Pasteur (Paris, France)
 Low hepatitis B virus DNA burden does not always protect from liver cancer development

10:00–10:20

Olga Kalinina, MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg)
 High burden of hepatitis B in Viet Nam: impact of a highly heterogeneous viral population

10:20–10:40

Konstantin Zakharov, Pavlov First St. Petersburg State Medical University (St. Petersburg)
 New generation of hepatitis B vaccines

11:00–11:30

BREAK

Zoonotic and parasitic infections

11:30–17:30

Co-chairs: **Nikolay Tokarevich**, MD, PhD, DSci, professor (St. Petersburg);
Mathieu Picardeau, PhD, professor (Paris, France)

11:30–11:50

Mathieu Picardeau, PhD, professor, Institut Pasteur (Paris, France)
 Whole genome-based phylogenetic diversity and epidemiological surveillance of Leptospira

11:50–12:10

Åshild Andreassen, professor, Norwegian Institute of Public Health (Norway)
 International collaborative project on tick-borne encephalitis in the Barents Region

12:10–12:30

Marina Eremeeva, Jiann-Ping Hsu College of Public Health, Georgia Southern University (Statesboro, USA)
 Pathogens, pesticide resistance and genetic diversity of human head lice

12:30–12:50	Nikolay Tokarevich , MD, PhD, DSci, professor, St. Petersburg Pasteur Institute (St. Petersburg) The impact of global climate on the incidence of tick-borne encephalitis in the European part of Russian Arctic
13:00–14:00	LUNCH
14:20–14:40	Olga Sokolova , Rospotrebnadzor's Office for Arkhangelsk Region (Arkhangelsk) Epidemiological surveillance over tick-borne viral encephalitis in Arkhangelsk Region
14:40–15:00	Tatyana Bergelson , Ulyanovsk State University (Ulyanovsk) Clinical-epidemiological and laboratory-instrumental aspects of non-erythematous form in patients with tick-borne borreliosis
15:00–15:20	Andrii Levkovskyi , Hospital RUSAL FRIGUIA (Fria, Republic of Guinea) Etiological characteristics of malaria and prevalence of hemoglobinopathies in patients in the Republic of Guinea
15:20–15:40	Chernyshev D.V. , Infectious Clinical Hospital No. 2 (Moscow) Pathogenetic treatment of severe <i>P. falciparum</i> malaria: approaches to optimization
15:40–16:00	Tatyana Zamarina , PhD, Research Anti-Plague Institute; Volgograd State Medical University (Volgograd) Application of a complex of methods in laboratory diagnostics of West Nile fever
16:00–16:30	BREAK
16:30–16:50	Emine Alieva , Federal State Budgetary Institution «Saki Military Clinical Sanatorium named after N.I. Pirogov» The Ministry of Defense of the Russian Federation (Saki, Republic of Crimea) PCR analysis in the real time regimen as a long-term method for laboratory diagnosis of rickettsiosis
16:50–17:10	Evgeniy Bondarenko , PhD, AO "Vector-Best" (Novosibirsk) Detection of genetic markers of tick-borne rickettsiosis with the PCR
17:10–17:30	Alexey Burdakov , PhD; Ukharov A.O., Solokhin A.S., Moscow State Technical University n.a. N.E. Bauman (Moscow) Information technology application for natural foci infections monitoring and prediction

HALL "DMITROV"

2nd St. Petersburg Symposium on Tuberculosis and Mycobacteria:
Molecular Approach

9:30–18:30

Symposium Chairman: Igor Mokrousov, PhD, DSci (St. Petersburg, Russia)

Section 4. Nontuberculous mycobacteria

Co-chairs: Alexander Apt, MD, PhD, DSci, professor (Moscow); Tomotada Iwamoto, PhD (Kobe, Japan)

9:30–9:55

Alexander Apt, MD, PhD, DSci, professor, Central Institute for Tuberculosis (Moscow)
Mycobacterium avium triggered disease: host genetics and immunity in mouse models

9:55–10:20

Tomotada Iwamoto, PhD, Kobe Institute of Health (Kobe, Japan)
Genomics and local adaptation of *Mycobacterium avium*

10:20–10:40

Vlad Nikolayevskyy, PhD, Imperial College (London, UK)
Development of the External Quality Assessment scheme for non-tuberculous Mycobacteria drug susceptibility testing in European Union

10:40–11:00

Vera Ustinova, Central Tuberculosis Research Institute & Syntol (Moscow, Russia)
Prevalence and diversity of nontuberculous mycobacteria in different regions of the Russian Federation

11:00–11:30

BREAK

11:30–11:55

Tomasz Jagielski, PhD, University of Warsaw (Warsaw, Poland)
Molecular typing of *Mycobacterium kansasii* – a global perspective

11:55–12:10

Sara Truden, University Clinic of Respiratory and Allergic Diseases (Golnik, Slovenia)
Emerging opportunistic pathogen *Mycobacterium abscessus* in Slovenia: molecular analysis of resistance genes compared to MIC method

12:10–12:30

Laura Rindi, professor, University of Pisa (Pisa, Italy)
Genetic diversity and drug resistance of *Mycobacterium avium* in Italy

12:30–13:00

POSTER SESSION

13:00–14:00

LUNCH

14:00–14:30

POSTER SESSION

Section 5. Virulence and resistance 1

Co-chairs: **Margarida Saraiva**, PhD (Porto, Portugal); **Roland Brosch**, PhD, professor (Paris, France)

14:30–14:55	Oleg Ogarkov , MD, PhD, DSci, Scientific Center for Family Health and Human Reproduction Problems (Irkutsk) Polymicrobial biofilm formation as a possible cause of unexpected defaulted treatment of pulmonary tuberculosis
14:55–15:20	Roland Brosch , PhD, professor, Institut Pasteur (Paris, France) Update on virulence factors in Mycobacteria
15:20–15:45	Margarida Saraiva , PhD, Instituto de Investigação e Inovação em Saúde; Universidade do Porto (Porto, Portugal) Functional relevance of <i>Mycobacterium tuberculosis</i> diversity: from genotypes to immune responses and disease severity
15:45–16:00	An Van den Bossche , PhD, Sciensano (Brussels, Belgium) RNA-based drug susceptibility testing of <i>Mycobacterium tuberculosis</i>
16:00–16:30	BREAK

Section 6. Virulence and resistance 2

Co-chairs: **Danila Zimenkov**, PhD (Moscow); **Scott Heysell**, MD (Charlottesville, USA)

16:30–16:55	Jim Werngren , PhD, Supranational reference laboratory for TB & Public Health Agency (Solna, Sweden) Drug resistance in <i>Mycobacterium tuberculosis</i> : from phenotypic MIC-analysis to WGS for routine DST
16:55–17:15	Maria Alvarez Figueroa , PhD, Central Research Institute for Epidemiology (Moscow) Analysis of gene mutations associated with MDR among <i>Mycobacterium tuberculosis</i> strains isolated in Moscow region
17:15–17:35	Richard Anthony , PhD, National Institute for Public Health and the Environment (Bilthoven, The Netherlands) Could the new insights into PZA resistance provide route to shorter more effective TB therapy?
17:35–17:55	Danila Zimenkov , PhD, Engelhardt Institute of Molecular Biology, Russian Academy of Sciences (Moscow) Advances in the study of molecular basis of resistance to new anti-TB drugs
17:55–18:15	Scott Heysell , MD, University of Virginia (Charlottesville, USA) <i>M. tuberculosis</i> drug resistance mutations and understanding of pharmacokinetics/pharmacodynamics: treatment and care implications
18:15–18:30	Concluding remarks

HALL “MOSCOW 1” **Section “Yersiniosis”**

9:00–13:00

Co-chairs: **Alexander Korolyuk**, MD, PhD, DSci, professor (St. Petersburg);
Olga Burgasova, MD, PhD, DSci (Moscow);
Ekaterina Voskresenskaya, PhD (St. Petersburg)

9:00–9:20

Alexander Korolyuk, MD, PhD, DSci, professor, St. Petersburg State Pediatric Medical University (St. Petersburg)

Once in the Far East: to the 50th anniversary of human “real” *Y. pseudotuberculosis* discovery

9:20–9:40

Ekaterina Voskresenskaya, PhD; Kokorina G.I., St. Petersburg Pasteur Institute (St. Petersburg)

Yersiniosis in the Russian Federation

9:40–10:00

Margarita Chesnokova, MD, PhD, DSci, professor; Klimov V., Irkutsk Anti plague Research Institute of Rospotrebnadzor (Irkutsk)

Microbiological monitoring of enteropathogenic yersinia

10:00–10:20

Svetlana Yermolaeva, MD, PhD, DSci, N.F. Gamaleya Federal Research Centre of Epidemiology and Microbiology (Moscow)

Characteristic features of *Yersinia pseudotuberculosis* strains associated with Far East scarlet-like fever

10:20–10:40

Nadezhda Peretolchina, Irkutsk State Medical University (Irkutsk)

Molecular genetic analysis of CRISPR loci of *Yersinia pseudotuberculosis* strains isolated in the Russian Federation

10:40–11:10

BREAK

11:10–11:30

Maria Bekhtereva, PhD, Children’s Scientific and Clinical Center of Infectious Diseases (St. Petersburg)

Yersiniosis in children: features of diagnosis, clinical manifestations and treatment

11:30–11:50

Margarita Shestakova, PhD, St. Petersburg State Pediatric Medical University (St. Petersburg)

Problems in the diagnosis of chronic yersiniosis in pediatric practice

11:50–12:10

Olga Burgasova, MD, PhD, DSci, Medical Institute of Peoples’ Friendship University of Russia (Moscow)

Clinical masks of yersiniosis

12:10–12:30

Vitaly Nazarov, MD, PhD, DSci, professor, North-Western State Medical University named after I.I. Mechnikov (St. Petersburg)

Chronic yersiniosis in gastroenterology

12:30–12:45

Tatyana Mertsalova, Andromed, LLC (St. Petersburg)

Methods of yersiniosis laboratory diagnosis

12:45–13:00	Elena Bogumilchik , St. Petersburg Pasteur Institute (St. Petersburg) Creating a spectra library for specific MALDI-TOF mass-spectrometry identification of <i>Yersinia enterocolitica</i> -like species
13:00–14:00	LUNCH
<p>Section “Particularly dangerous and rare infections” 14:00–18:00</p> <p>Co-chairs: Alexander Kulichenko, corresponding member of RAS (Stavropol); Vladimir Dedkov, PhD (St. Petersburg); Rinat Maksyutov, MD, PhD, DSci (Novosibirsk)</p>	
14:00–14:20	Alexander Kulichenko , corresponding member of RAS, MD, PhD, DSci, Stavropol Plague Control Research Institute (Stavropol) Molecular analysis of pathogens of particularly dangerous bacterial infections: from theory to practice
14:20–14:40	Rinat Maksyutov , MD, PhD, DSci, State Research Center of Virology and Biotechnology “Vector” (Novosibirsk) Synthetic peptide vaccines as an effective tool for emergent response
14:40–15:00	Lukashev Alexander , MD, PhD, DSci, professor, Martsinovsky Institute of Medical Parasitology, Tropical and Vector Borne Diseases (Moscow) Emerging infections of the 21 st century: new challenges and new opportunities
15:00–15:20	Balakhonov Sergey , MD, PhD, DSci, professor, Irkutsk Antiplague Research Institute of Rospotrebnadzor (Irkutsk) Molecular-diagnostic aspects of optimization of epidemiological surveillance in natural plague foci in Siberia
15:20–15:40	Olga Kudryavtseva , PhD; Shchukovskaya T.N., Mikshis N.I., Goncharova A.Yu., Klyueva S.N., Bugorkova S.A., Russian Research Anti-Plague Institute “Microbe” (Saratov) HLA gene polymorphism in persons vaccinated against plague
15:40–16:00	Olga Chemisova , PhD, Rostov-on-Don Institute for Plague Control (Rostov-on-Don) INDEL typing of <i>Vibrio parahaemolyticus</i> strains isolated during outbreaks in the Russian Federation
16:00–16:30	BREAK
16:30–16:50	Guzel Isayeva , MD, PhD, DSci, Kazan Scientific Research Institute of Epidemiology and Microbiology (Kazan) Molecular methods in the surveillance of hemorrhagic fever with renal syndrome
16:50–17:10	Irina Bakshtanovskaya , PhD, Tyumen Regional Infectious Pathology Research Institute (Tyumen) Genetic polymorphisms in parasitic diseases in case of opisthorchiasis: epidemiological and clinical aspects

17:10–17:30	Andrei Anisimov , MD, PhD, DSci, professor, State Research Center for Applied Microbiology and Biotechnology (Obolensk) <i>Yersinia pestis</i> vole's strains: taxonomy, phylogeography, polymorphisms of pathogenicity factors and selective virulence
17:30–17:50	Natalia Breneva , PhD; Samsonova A.P., Petrov E.M., Kiseleva E.Yu., Sharakshanov M.B., Balakhonov S.V., Irkutsk Anti plague Research Institute of Rospotrebnadzor (Irkutsk); Gamaleya State Research Centre for Epidemiology and Microbiology (Moscow) Development of algorithm for the <i>Leptospira</i> typing using MALDI-TOF and MLST
<p align="center">HALL “MOSCOW 2”</p> <p align="center">Molecular technologies in epidemiology and diagnostics of enteric infections</p> <p align="center">9:00–13:00</p> <p>Co-chairs: François-Xavier Weill, PhD (Paris, France); Lidia Kaftyreva, MD, PhD, DSci (St. Petersburg)</p>	
9:00–9:55	François-Xavier Weill , PhD, Institut Pasteur (Paris, France) Genomic insights into the Grigoriev-Shiga's bacillus
9:55–10:15	Lidia Kaftyreva , MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg) International clones of <i>S. Typhi</i>
10:15–10:35	Natalia Epifanova , PhD, Novikova N.A., I.N. Blokhina Research Institute for Epidemiology and Microbiology (Nizhny Novgorod) Circulation of the epidemic variant of norovirus GII.4_Sydney2012 in Nizhny Novgorod, Russia
10:35–10:55	Tatyana Sashina , PhD, Epifanova N.V., Novikova N.A., I.N. Blokhina Research Institute for Epidemiology and Microbiology (Nizhny Novgorod) Rotavirus variants in Russia
10:55–11:15	Maria Makarova , PhD, St. Petersburg Pasteur Institute (St. Petersburg) <i>E. coli</i> : genetic diversity of the virulence determinants
11:15–11:45	BREAK
11:45–12:05	Svetlana Egorova , PhD, St. Petersburg Pasteur Institute (St. Petersburg) Genetic diversity of the antimicrobial resistance mechanisms in <i>Salmonella enterica</i>
12:05–12:25	Alexander Porin , PhD, St. Petersburg Pasteur Institute (St. Petersburg) The new vision at the identification of thermotolerant campylobacters
12:25–12:45	Elena Orishak , PhD, North-Western State Medical University named after I.I. Mechnikov (St. Petersburg) Detection of the pathogenic potential of <i>Escherichia coli</i>
12:45–13:00	Alena Svarval , PhD; Roshchina N.G., Ferman R.S., Ermolenko K.D., St. Petersburg Pasteur Institute (St. Petersburg) Epidemiological features of <i>H. pylori</i> infection in St. Petersburg at the present
13:00–14:00	LUNCH

New drugs for the chemotherapy of infectious diseases

14:00–16:00

Co-chairs: **Victor Tetz**, MD, PhD, DSci, professor (St. Petersburg); **Vladimir Zarubaev**, PhD (St. Petersburg)

14:00–14:20	Victor Tetz , MD, PhD, DSci, professor, academician of RANS, Pavlov First St. Petersburg State Medical University (St. Petersburg) New developments in the field of broad-spectrum antibacterial drugs
14:20–14:40	Vladimir Zarubaev , PhD, St. Petersburg Pasteur Institute (St. Petersburg) Development and preclinical studies of new anti-influenza drug camphocene
14:40–15:00	Yuri Vasiliev , PhD, Research Institute of Ultrapure Biologicals (St. Petersburg) Control of influenza via vaccines: challenges and perspectives as viewed by various stakeholders
15:00–15:20	Nadezhda Yuminova , MD, PhD, DSci, professor, I.I. Mechnikov Scientific Research Institute of Vaccines and Sera (Moscow) Vaccine prevention, diagnosis and genotypes of the mumps virus
15:20–15:40	Anastasia Galochkina , PhD, St. Petersburg Pasteur Institute (St. Petersburg) The use of natural flavonoids for the therapy of enteroviral infections
15:40–16:00	BREAK

Particular issues of infectology

16:00–18:30

Co-chairs: **Olga Kubar**, MD, PhD, DSci (St. Petersburg); **Oleg Konstantinov**, PhD (Kindia, Republic of Guinea)

16:00–16:20	Olga Kubar , MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg) Ethics of vaccination as the criteria of the scientific and humanistic approach
16:20–16:35	Nikolai Mukhurov , MD, PhD, DSci, professor, State Scientific and Production Association «Optic, Optoelectronic and laser technique» (Minsk, Republik of Belarus); Kraeva L.A. , MD, PhD, DSci; Hamdulaeva G.N. , St. Petersburg Pasteur Institute (St. Petersburg) Express method of growing bacteria on the membrane of anodic aluminium oxide
16:35–16:50	Valeriy Isakov , MD, PhD, DSci, professor, Ermolenko D.K., Isakov D.V., Pavlov First St. Petersburg State Medical University (St. Petersburg) Prospects for the treatment and vaccine prevention of Herpes Simplex Virus
16:50–17:05	Dmitry Ermolenko , PhD; Zakrevskaya A.V. , Kulyashova L.B. , Roshcina N.G. , St. Petersburg Pasteur Institute (St. Petersburg) Influence of vaginal microbiota on the activity of Humam Papillomavirus

17:05–17:20	Oleg Konstantinov , PhD, Research Institute of Applied Biology of Guinea (Kindia, Republic of Guinea) Modern problems of infectious diseases prevention in public health of the Republic of Guinea
17:20–17:40	Yuna Kozlova , Frolova E.V., Uchevatkina A.E., Filippova L.V., Klimko N.N., North-Western State Medical University named after I.I. Mechnikov (St. Petersburg) Anti-inflammatory effect of itraconazole in patients with allergic bronchopulmonary aspergillosis
17:40–18:00	Yulia Klimova , Tokmalayev A.K., Polovinkina N.A., Konnov D.S., Peoples' Friendship University of Russia (Moscow) Cytokine profile in adults with respiratory syncytial viral infection
18:00–18:20	Elena Ermolenko , MD, PhD, DSci, professor, Institute of Experimental Medicine (St. Petersburg) Influence of monostrain and multistrain autoprobiotics on microbiota and immunity of rats with intestinal dysbiosis
18:20–18:30	Discussion
<p style="text-align: center;">HALL "VOLGOGRAD" 10th Symposium with International Participation "HIV-infection and Immunosuppression" Session 4. Socially significant infections 9:00–11:30</p> <p>Co-chairs: Lyudmila Bubnova, professor (St. Petersburg); Natalia Sizova, MD, PhD, DSci (St. Petersburg); Elena Isaeva, professor (St. Petersburg)</p>	
9:00–9:15	Lyudmila Bubnova , professor, Russian Scientific Research Institute of Hematology and Transfusiology, FMBA of Russia (St. Petersburg) Prognosis and success of ART depending on immunogenetic factors
9:15–9:30	Natalia Zakharova , MD, PhD, DSci, St. Petersburg AIDS Center (St. Petersburg) Pharmacovigilance within the AIDS Center in St. Petersburg
9:30–9:45	Elena Isaeva , professor, Pavlov First St. Petersburg State Medical University; Buzunova A., St. Petersburg AIDS Center (St. Petersburg) Psychological aspects of attitudes to a disease and treatment in HIV-infected patients
9:45–10:00	Olga Bogdanova , LLC Beckman Coulter (Moscow) Immunological tests in HIV/AIDS monitoring
10:00–10:15	Konstantin Tolstykh , CBioSc, Head of the Implementation of Automated Solutions and User Support Office (St. Petersburg) Solutions for automated Microlab STARlet-based PCR for AIDS Centers

10:15–10:30	Natalia Sizova , MD, PhD, DSci St. Petersburg AIDS Center (St. Petersburg) Highly active antiretroviral therapy and HIV drug resistance
10:30–10:45	Alexander Zurochka , MD, PhD, DSci, Professor, Institute of Immunology and Physiology, RAS Ural Branch (Chelyabinsk) Clinical and immunological efficacy of muramyl dipeptide derivatives in comprehensive treatment for chronic viral infections
10:45–11:00	Ivan Kozlov , MD, PhD, DSci., Professor, Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology and Immunology (Moscow) Signaling receptor agonists of innate immunity in treatment for infectious diseases
11:00–11:15	Vadim Rassokhin , MD, PhD, DSci.; Boyeva Ye., Pavlov First St. Petersburg State Medical University (St. Petersburg); Kovelonov A., professor, Leningrad Regional AIDS Center (St. Petersburg) HIV/HCV co-infection in young women. Major problems and their solutions
11:15–11:30	Vladimir Rosenberg , CMedSc, Republican Infectious Disease Hospital (St. Petersburg) A woman and HIV. Some aspect of gynecological conditions
11:30–12:00	Discussion. Closing
Problems of microorganisms antibiotic-resistance: issues and solutions 12:00–17:30 Co-chairs: Sergey Sidorenko , MD, PhD, DSci, professor (St. Petersburg); Anna Afinogenova , MD, PhD, DSci (St. Petersburg); Mamadou Yero Boiro , PhD (Kindia, Republic of Guinea)	
12:00–12:20	Sergey Sidorenko , MD, PhD, DSci, professor, Pediatric Research and Clinical Center for Infectious Diseases (St. Petersburg) Molecular mechanisms of formation and spread of antimicrobial resistance
12:20–12:40	Mamadou Yero Boiro , PhD, professor, Research Institute of Applied Biology of Guinea (Kindia, Republic of Guinea) Study of antimicrobial resistance in medical institutions in Conakry (Republic of Guinea)
12:40–13:00	Anna Afinogenova , MD, PhD, DSci, St. Petersburg Pasteur Institute (St. Petersburg) The effect of sub-bactericidal doses of antiseptics on DNA and phenotypic markers of virulence of microorganisms
13:00–14:00	LUNCH
14:00–14:20	Vladimir Gostev , PhD, Pediatric Research and Clinical Center for Infectious Diseases (St. Petersburg) Molecular epidemiology of linezolid – resistant coagulase-negative Staphylococci

14:20–14:40	<p>Nadezhda Fursova, PhD, State Research Center for Applied Microbiology and Biotechnology (Obolensk)</p> <p>Phenotypes and genotypes of classical and hypervirulent <i>Klebsiella pneumoniae</i> clinical strains isolated in Moscow in 2013–2018</p>
14:40–15:00	<p>Nikolai Mikhailov, PhD; Egorova S.A, Zueva E.V., Likhachev I.V., Rogacheva E.V., Dudko D.A., Karpova E.S., Samoylova A.A., Verbov V.N., Kraeva L.A., St. Petersburg Pasteur Institute (St. Petersburg)</p> <p>Differentiation of <i>Klebsiella</i> spp. strains for sensitivity to antibiotics using mass spectrometry analysis MALDI-TOF</p>
15:00–15:20	<p>Alexander Stepanov, North-Western State Medical University named after I.I. Mechnikov (St. Petersburg)</p> <p>Actual problems of identification and typing of <i>Staphylococcus</i> spp. by MALDI-TOF mass-spectrometry</p>
15:20–15:40	<p>Iskander Bairamov, St. Petersburg State University (St. Petersburg)</p> <p>Metabolic activity of plankton in comparison with biofilm phenotype some microorganisms of human microbiota</p>
15:40–16:00	<p>Elena Koshel, PhD, ITMO University (St. Petersburg)</p> <p>Development of functional nanostructures effective against bacteria biofilms including multidrug resistant bacteria</p>
16:00–16:30	BREAK
16:30–16:50	<p>Inna Polishchuk, Rostov Research Institute of Microbiology and Parasitology (Rostov-on-Don)</p> <p>Analysis of the phage sensitivity of microorganisms of a microbiota of a vagina</p>
16:50–17:10	<p>Irina Lazareva, PhD, Pediatric Research and Clinical Center for Infectious Diseases (St. Petersburg)</p> <p>Molecular epidemiology of producers of carbapenemases in St. Petersburg</p>
17:10–17:30	<p>Elvira Martens, Pediatric Research and Clinical Center for Infectious Diseases (St. Petersburg)</p> <p>Comparison of phenotypic and molecular-genetic properties of the strains <i>Neisseria meningitidis</i> isolated from patients with generalized forms of meningococcal infection and carriers</p>
<p>HALL “ATRIUM”</p> <p>Closing of the Conference. Awards winners</p> <p>18:00</p>	

POSTER SESSION 1

Wednesday, December 5th, 2018, 9:00–16:00, 1 floor

1.1	<p>Akulova E.¹, Dukhovlinova E.³, Masharsky A.¹, Shevchenko A.⁴, Verevochkin S.¹, Tousseva O.⁴, Vasileva A.², Zhou Sh.³, Hoffman I.³, Miller W.³, Frishman D.², Montefiori D.⁵, Swanstrom R.³, Kozlov A.P.^{1,2,4}</p> <p>¹ State Research Institute of Highly Pure Biopreparations, St. Petersburg, Russia; ² Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia; ³ UNC-Chapel Hill, Chapel Hill, USA; ⁴ The Biomedical Center, St. Petersburg, Russia; ⁵ Duke University Medical Center, Duke University, Durham, USA</p> <p>The analysis of transmitted HIV-1 variants among acutely infected people who inject drugs using NGS approach</p>
1.2	<p>Altanzul B.¹, Burgasova O.A.², Baigal V.³, Khorolgarav G.³, Chinbayar Ts.³, Kam Sin¹</p> <p>¹ Department of Preventive Medicine, School of Medicine, Kyungpook National University, Daegu, South Korea; ² Peoples' Friendship University of Russia, (RUDN University), Moscow, Russia; ³ National Center for Communicable Disease, Ministry of Health, Ulaanbaatar, Mongolia</p> <p>Analysis of measles cases in children during the outbreak in Mongolia, 2015</p>
1.3	<p>Antipova A.Yu., Khamitova I.V., Zheleznova N.V., Bichurina M.A., Lavrenteva I.N.</p> <p>St. Petersburg Pasteur Institute, St. Petersburg, Russia</p> <p>Detection of Parvovirus B19 DNA in blood serum of patients with erythema</p>
1.4	<p>Baiseit S.B., Ongarbayeva N.S., Kalkozhayeva M.K., Shamenova M.G., Saktaganov N.T., Lukmanova G.V., Klivleyeva N.G.</p> <p>LLP Scientific Production Center for Microbiology and Virology, Almaty, Kazakhstan</p> <p>Circulation of Influenza Viruses among humans and swine in the regions of Northern and Western Kazakhstan in 2017–2018</p>
1.5	<p>Balaeva T.V.^{1,2,3}, Grjibovskij A.M.^{2,4,5}, Samodova O.V.², Sannikov A.L.², Klouman E.³</p> <p>¹ Center of Hygiene and Epidemiology in the Arkhangelsk Region, Arkhangelsk, Russia; ² Northern State Medical University, Arkhangelsk, Russia; ³ Institute of Community Medicine, UiT The Arctic University of Norway, Tromsø, Norway; ⁴ North-Eastern Federal University, Yakutsk, Republic of Sakha (Yakutia), Russia; ⁵ Department of Preventive Medicine, International Kazakh-Turkish University, Turkestan, Kazakhstan</p> <p>Viral hepatitis B and C in the Arkhangelsk region: long-term dynamics of incidence and cross-sectional study of markers among adult population</p>
1.6	<p>Batsunov O.K.¹, Arsentieva N.A.¹, Shilova I.V.², Goryacheva L.G.²</p> <p>¹ St. Petersburg Pasteur Institute, St. Petersburg, Russia; ² Children's Scientific and Clinical Center of Infectious Diseases, St. Petersburg, Russia</p> <p>The expression of chemokine receptors CCR6 and CXCR3 on lymphocytes in patients with chronic hepatitis B</p>
1.7	<p>Dentovskaya S.V., Kombarova T.I., Ivanov S.A., Svetoch T.E., Shaikhutdinova R.Z.</p> <p>State Research Center for Applied Microbiology and Biotechnology, Obolensk, Russia</p> <p>The Outer Membrane Protein A (OmpA) of <i>Yersinia pestis</i> is not required for virulence in mice and rats</p>

1.8	<p>Dolgova A.S.¹, Goptar I.A.^{1,2}, Bulanenko V.P.¹, Pushin A.S.³, Mitouchkina T.Y.³ ¹Central Research Institute of Epidemiology, Moscow, Russia; ²Research Institute of Occupational Health, Moscow, Russia; ³Branch of Shemyakin Institute of Bioorganic Chemistry RAS, Pushchino, Russia</p> <p>Expression of recombinant NS1 proteins of West Nile, Dengue and Zika fever viruses in <i>Nicotiana tabacum</i> for future use in diagnostics</p>
1.9	<p>Ermolaeva S.A., Sobyenin K.A., Sysolyatina E.V., Chalenko Ya.M. Gamaleya State Research Center of Epidemiology and Microbiology, Moscow, Russia</p> <p>Perinatal listeriosis: the mouse model</p>
1.10	<p>Freylikhman O.A.^{1,2}, Kiselev A.M.², Sergushichev A.A.³, Kazakov S.V.³, Panferova Yu.A.¹, Kostareva A.A.^{2,3}, Tokarevich N.K.¹ ¹St. Petersburg Pasteur Institute, St. Petersburg, Russia; ²Federal Almazov North-West Medical Research Centre, St. Petersburg, Russia; ³ITMO University, St. Petersburg, Russia</p> <p>Whole genome-based characterization of <i>Coxiella burnetii</i> strains isolated in Russian Federation</p>
1.11	<p>Godovalov A.P., Karpunina T.I. Acad. E.A. Wagner Perm State Medical University, Perm, Russia</p> <p>Relationship between microorganisms in the vaginal biotope of subfertile women</p>
1.12	<p>Goryaev E.A.¹, Khorkova E.V.², Istoriik O.A.³, Lyalina L.V.¹ ¹St. Petersburg Pasteur Institute, St. Petersburg, Russia; ²Leningrad Regional Health Committee, St. Petersburg, Russia; ³Department of Federal Service for Consumer Rights Protection and Human Well-being in Leningrad Region, St. Petersburg, Russia</p> <p>Evidence of the Regional programme of vaccination against Human papillomavirus infection in the Leningrad area</p>
1.13	<p>Grigoryeva L.A., Miteva O.A. Zoological Institute of RAS, St. Petersburg, Russia</p> <p>Is there a transovarial transmission of taiga tick (<i>Ixodes persulcatus</i> Sch.) and the sheep tick (<i>Ixodes ricinus</i> (L.)) the causative agent of ixodid tick-borne borreliosis (<i>Borrelia burgdorferi</i> s.l.)?</p>
1.14	<p>Grishchenko V.I., Potapchuk M.V., Fadeev A.V., Tsybalova L.M. Smorodintsev Research Institute of Influenza, St. Petersburg, Russia</p> <p>Generation and characterization of genetic reassortants between potentially pandemic viruses (A/H9N2 or A/H5N8) and the A/Hong Kong/1/68/162/35 (H3N2) master donor virus</p>
1.15	<p>Kalikina P.A., Koshel E.I. ITMO University, St. Petersburg, Russia</p> <p>Effect of metal oxide nanoparticles on the exchange of genetic material between bacteria</p>
1.16	<p>Kassirov I.S., Ulasevich S.A., Skorb E.V., Koshel E.I. ITMO University, St. Petersburg, Russia</p> <p>Sonochemical nanostructuring of antibiotics is a new approach to increasing their effectiveness against resistant strains</p>

1.17	<p>Kechin A.A.^{1,2}, Boldyreva D.S.^{1,2}, Makarova M.A.³, Kaftyreva L.A.³, Scherbak S.G.^{4,5}, Apalko S.V.⁵, Filipenko M.L.^{1,2}, Sarana A.M.^{4,5}, Churina M.A.^{5,6}</p> <p>¹ Institute of Chemical Biology and Fundamental Medicine of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia; ² Novosibirsk State University, Novosibirsk, Russia; ³ St. Petersburg Pasteur Institute, St. Petersburg, Russia; ⁴ St. Petersburg State University, St. Petersburg, Russia; ⁵ St. Petersburg State Medical Academy "City Hospital No. 40 of the Resort Administrative District", St. Petersburg, Russia; ⁶ St. Petersburg Clinical Infectious Diseases Hospital named after S.P. Botkin, St. Petersburg, Russia</p> <p>NGS capabilities for the study of enteroaggregative <i>E. coli</i></p>
1.18	<p>Kolobov A.A.¹, Leontieva G.F.², Kramskaya T.A.³, Zakrevskaya A.V.³, Grabovskaya K.B.², Smirnova M.P.¹, Roshchina N.G.³, Ermolenko E.I.^{2,4}</p> <p>¹ State Research Institute of Highly Pure Biopreparations, St. Petersburg, Russia; ² Institute of Experimental Medicine, St. Petersburg, Russia; ³ St. Petersburg Pasteur Institute, St. Petersburg, Russia; ⁴ St. Petersburg State University, St. Petersburg, Russia</p> <p>Antimicrobial and immunomodulating activity of a topical gel containing active peptide components on the model of experimental bacterial vaginitis</p>
1.19	<p>Koretskaia N.A., Golovatskii A.V., Komarova E.A.</p> <p>Irkutsk Diagnostic Centre (IDC), Bratsk, Russia</p> <p>Neutrophil/lymphocyte disbalance as a predictor of vaginitis</p>
1.20	<p>Korytov K.M.¹, Balakhonov S.V.¹, Voitkova V.V.¹, Dubrovina V.I.¹, Noskov A.K.¹, Mishchenko A.I.², Shchuchinov L.V.³, Makin A.A.⁴</p> <p>¹ Irkutsk Antiplague Research Institute of Rospotrebnadzor, Irkutsk, Russia; ² Altai Antiplague Station of Rospotrebnadzor, Gorno-Altai, Russia; ³ Administration of Rospotrebnadzor in Republic Altai, Gorno-Altai, Russia; ⁴ Kosh-Agach Regional Hospital, Kosh-Agach, Republic Altai, Russia</p> <p>Monitoring of vaccinal process in humans residing in the Altai high-mountainous natural plague focus</p>
1.21	<p>Kubar O.I., Bichurina M.A., Romanenkova N.I., Rosaeva N.I., Zheleznova N.B., Lavrentieva I.N., Antipova A.Yu., Kanaeva O.I.</p> <p>St. Petersburg Pasteur Institute, St. Petersburg, Russia</p> <p>Ethical consideration in conception of infectious diseases eradication</p>
1.22	<p>Lichnaia E.V.¹, Kalinina O.V.^{1,2}, Bui Thi Lan Anh³, Nguyen Van Minh³, Vo Viet Cuong³, Pham Thi Ha Giang³, Bui Thi Thanh Nga³, Ha Pham Thi³, Pham Ngoc Quang³, Bil'ko E.A.⁴, Abdrashitova A.S.⁴, Gando D.M.⁵, Boiro M.Y.⁵, Totolian A.A.¹, Dmitriev A.V.⁶</p> <p>¹ St. Petersburg Pasteur Institute, St. Petersburg, Russia; ² Almazov National Medical Research Centre, St. Petersburg, Russia; ³ Institute of Tropical Medicine, Hanoi, Vietnam; ⁴ Institute Microbe, Saratov, Russia; ⁵ Institute of Applied Biology in Guinea, Kindia, Republic of Guinea; ⁶ Institute of Experimental Medicine, St. Petersburg, Russia</p> <p>The occurrence of hepatitis C markers among residents of the Kindia Prefecture of the Republic of Guinea and the Khanh Hoa Province of Viet Nam</p>
1.23	<p>Lyubimova N.E., Semenov A.V.</p> <p>St. Petersburg Pasteur Institute, St. Petersburg</p> <p>Polymorphism the CCR2 gene in the St. Petersburg population</p>

1.24	<p>Malyshev V.V., Razumova D.V. <i>S.M. Kirov Military Medical Academy, St. Petersburg, Russia</i></p> <p>Epidemiological characteristics, etiological structure and modern methods of detection of pathogens of acute intestinal viral infections in organized groups</p>
1.25	<p>Ostankova Yu.V., Semenov A.V. <i>St. Petersburg Pasteur Institute, St. Petersburg, Russia</i></p> <p>The drug resistance mutations of the hepatitis B virus among HIV-infected individuals</p>
1.26	<p>Purgina D.S.¹, Lyalina L.V.^{1,2}, Rassohin V.V.^{1,3} ¹ <i>St. Petersburg Pasteur Institute, St. Petersburg, Russia;</i> ² <i>North-Western State Medical University named after I.I. Mechnikov, St. Petersburg, Russia;</i> ³ <i>Pavlov First St. Petersburg State Medical University, St. Petersburg, Russia</i></p> <p>Clinical-epidemiological characteristic of the inflammatory bowel diseases in St. Petersburg</p>
1.27	<p>Rozhdestvensky E.N.¹, Tokmakova E.G.², Kosilko S.A.², Korzun V.M.², Grigoreva I.L.¹, Akulova S.S.¹, Balakhonov S.V.² ¹ <i>Altai Antiplague Station of Rospotrebnadzor, Gorno-Altai, Russia;</i> ² <i>Irkutsk Antiplague Research Institute of Rospotrebnadzor, Irkutsk, Russia</i></p> <p>Characteristics of a mobile laboratory for monitoring and diagnostics during epizootological investigation in the Mongolian part of the transboundary Sailugem plague focus</p>
1.28	<p>Rumyantseva V.I., Koshel E.I. <i>ITMO University, St. Petersburg, Russia</i></p> <p>A study of the potential of spider silk use for the development of antibacterial drugs</p>
1.29	<p>Rumyantseva V.I., Andreeva U.I., Drozdov A.S., Vinogradov V.V., Koshel E.I. <i>ITMO University, St. Petersburg, Russia</i></p> <p>Development of magnetically controlled antibacterial complex effective against biofilms</p>
1.30	<p>Sashina T.A.¹, Morozova O.V.^{1,2}, Epifanova N.V.¹, Migunova T.A.², Polyakov N.A.², Novikova N.A.^{1,2} ¹ <i>I.N. Blokhina Research Institute for Epidemiology and Microbiology, Nizhny Novgorod, Russia;</i> ² <i>Lobachevsky State University, Nizhny Novgorod, Russia</i></p> <p>Distribution of rotavirus G-, P-, I-, and E-genotypes in Nizhny Novgorod, Russia</p>
1.31	<p>Shuklina M.A., Stepanova L.A., Vidyaeva I.G., Korotkov A.V., Eletskaia E.I., Tsybalova L.M. <i>Smorodintsev Research Institute of Influenza, St. Petersburg, Russia</i></p> <p>Immunization with universal influenza vaccine enhances immune response to subsequent infection</p>
1.32	<p>Slis' S.S., Kovalev E.V., Nenadskaya S.A., Miroshnichenko G.A. <i>Rostov Region Surveillance Directory, Rostov-on-Don, Russia</i></p> <p>The use of correlation analysis on the example of influenza vaccination on the territory of the Rostov region</p>

1.33	Suzhaeva L.V., Makarova M.A., Kaftyreva L.A. <i>St. Petersburg Pasteur Institute, St. Petersburg, Russia</i> Virulence genes and phylogenetic groups of commensal strains of <i>Escherichia coli</i>
1.34	Timoshicheva T.A., Amosova I.V. <i>Smorodintsev Research Institute of Influenza, St. Petersburg, Russia</i> Prospects for monoclonal antibodies using in differential diagnosis of adenovirus infection
1.35	Trapeznikov Y.P. <i>Acad. E.A. Wagner Perm State Medical University, Perm, Russia</i> Influence of cholesterol on the growth of <i>Staphylococcus</i> spp.
1.36	Trukhachev A.L., Meloyan M.G., Arsenyeva I.E., Lebedeva S.A. <i>Rostov-on-Don Plague Control Research Institute, Rostov-on-Don, Russia</i> The <i>Yersinia pestis</i> transaldolase as a component of antigenic complex "fraction V"
1.37	Vodop'ianov S.O., Vodop'ianov A.S., Pisanov R.V., Borodina T.N., Oleynikov I.P., Titova S.V. <i>Rostov-on-Don Anti plague Institute, Rostov-on-Don, Russia</i> Island RND found in a strain of <i>Vibrio cholerae</i> isolated in the Russian Federation
1.38	Voitenkova E.V., Suzhaeva L.V., Zabrovskaia A.V., Kaftyreva L.A. <i>St. Petersburg Pasteur Institute, St. Petersburg, Russia</i> Antibiotic-resistant <i>Klebsiella pneumoniae</i> in the gut microbiota of healthy individuals
1.39	Volozhantsev N.V. ¹ , Solovieva E.V. ¹ , Krasilnikova V.M. ¹ , Myakinina V.P. ¹ , Verevkin V.V. ¹ , Borzilov A.I. ¹ , Shpirt A.M. ² , Knirel Y.A. ² ¹ State Research Center for Applied Microbiology and Biotechnology, Obolensk, Russia; ² N.D. Zelinsky Institute of Organic Chemistry, Moscow, Russia Capsule specific polysaccharide depolymerases of <i>Klebsiella pneumoniae</i> bacteriophages: implication in typing and treatment
1.40	Zharkova M.S. ¹ , Umnyakova E.S. ¹ , Afinogenov G.E. ² , Afinogenova A.G. ^{2,3} , Shamova O.V. ^{1,2} ¹ Institute of Experimental Medicine, St. Petersburg, Russia; ² St. Petersburg State University, St. Petersburg, Russia; ³ St. Petersburg Pasteur Institute, St. Petersburg, Russia Combined antibacterial activity of antimicrobial peptides and antiseptic agents
1.41	Zueva E.B., Ostankova Yu.V. <i>St. Petersburg Pasteur Institute, St. Petersburg, Russia</i> The prevalence and molecular epidemiology of <i>Stenotrophomonas maltophilia</i> in the intensive care units
1.42	Zueva E.V., Mikhailov N.V., Likhachev I.V., Kraeva L.A., Egorova S.A., Totolian A.A. <i>St. Petersburg Pasteur Institute, St. Petersburg, Russia</i> Data analysis of mass-spectral <i>Klebsiella pneumoniae</i> profiles to predict of carbapenem-resistant strains

POSTER SESSION 2

2nd St. Petersburg Symposium on Tuberculosis and Mycobacteria: Molecular Approach

Wednesday, December 5th, 2018, 9:00–16:00, 2 floor

2.1	<p>Aainouss A.^{1,2}, Momen G.², Bennani K.³, Lamaammal A.², Chtioui F.², Messaoudi M.², Mouslim J.¹, Khyatti M.², El Messaoudi M.D.²</p> <p>¹ Faculté des Sciences Ben M'Sik, Casablanca, Morocco; ² Institut Pasteur du Maroc, Casablanca, Morocco; ³ Direction de l'Épidémiologie et Lutte Contre les Maladies, Ministry of Health, Morocco</p> <p>Performance of GeneXpert MTB/RIF in the diagnosis of extrapulmonary tuberculosis in Morocco</p>
2.2	<p>Bakula Z.¹, Pleń M.¹, Javed H.², Hashmi H.J.², Tahir Z.³, Roeske K.¹, Jamil N.², Jagielski T.³</p> <p>¹ Department of Applied Microbiology, Institute of Microbiology, Faculty of Biology, University of Warsaw, Poland; ² Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan; ³ Provincial TB Control Program, Lahore, Pakistan</p> <p>Genetic diversity of multidrug-resistant <i>Mycobacterium tuberculosis</i> isolates in Pakistan</p>
2.3	<p>Ciobanu N.¹, Alexandru S.¹, Chesov D.¹, Codreanu A.¹, Lange C.², Crudu V.¹</p> <p>¹ Phthisiopneumology Institute, Chisinau, Moldova; ² Research Center Borstel, Germany</p> <p>The correlation between levels of phenotypic resistance and genotypic mutations of <i>M. tuberculosis</i></p>
2.4	<p>De Vos M.¹, Ley S.¹, Derendinger B.¹, Dippenaar A.¹, Grobbelaar M.¹, Reuter A.², Daniels J.², Burns S.³, Theron G.¹, Posey J.³, Warren R.¹, Cox H.⁴</p> <p>¹ DST/NRF Centre of Excellence in Biomedical Tuberculosis Research/SAMRC Centre for Tuberculosis Research, Division of Molecular Biology and Human, Faculty of Medicine and Health Science, Stellenbosch University, South Africa; ² Médecins Sans Frontières, Operational Centre Brussels (OCB), Khayelitsha Project, Cape Town, South Africa; ³ Division of Tuberculosis Elimination, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention, 1600 Clifton Road, Atlanta, Georgia 30329, United States; ⁴ Institute of Infectious Disease and Molecular Medicine and Division of Medical Microbiology, Department of Pathology, Faculty of Health Sciences, University of Cape Town, South Africa</p> <p>Emergence of bedaquiline resistance after co mpletion of bedaquiline-based drug-resistant TB treatment: a case study from South Africa</p>
2.5	<p>Disratthakrit A.¹, Palittapongarnpim P.^{2,3}, Ajawatanawong P.², Smittipat N.³, Mahasirimongkol S.¹, Miyahara R.⁴, Yanai H.^{5,6}, Yamada N.⁷, Nedsuwan S.⁸, Imasanguan W.⁸, Kantipong P.⁸, Chaiyasinrojje B.⁵, Bupachat S.⁵, Ananpradit P.⁵, Piboonsiri P.¹, Ruengchai W.², Juthayothin T.³, Phelan J.⁹, Parkhill J.¹⁰, Clark T.G.⁹, Hibberd M.L.⁹, Tokunaga K.⁴</p> <p>¹ Department of Medical Sciences, Ministry of Public Health, Thailand; ² Department of Microbiology, Faculty of Science, Mahidol University, Thailand; ³ National Centre for Genetic Engineering and Biotechnology, National Science and Technology Development Agency, Thailand; ⁴ Department of Human Genetics, Graduate School of Medicine, the University of Tokyo, Japan; ⁵ TB-HIV Research Foundation, Thailand; ⁶ Fukujuji Hospital, Japan Antituberculosis Association (JATA), Japan; ⁷ Research Institute of Tuberculosis, JATA, Japan; ⁸ Chiangrai Prachanukroh Hospital, Ministry of Public Health, Thailand; ⁹ London School of Hygiene and Tropical Medicine, UK; ¹⁰ Wellcome Trust Sanger Institute, Hinxton, UK</p> <p>A 15-year spatiotemporal analysis of <i>Mycobacterium tuberculosis</i> lineages 1 and 2 in Chiang Rai, Thailand</p>

2.6	<p>Eliseev P.I.¹, Tarasova I.V.², Mariandyshev A.O.¹ ¹ Northern State Medical University, Arkhangelsk, Russia; ² Arkhangelsk Regional Antituberculosis Dispensary, Arkhangelsk, Russia</p> <p>Molecular-genetic methods of detection of tuberculosis and its drug resistance in Arkhangelsk region in 2017</p>
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2.8	<p>Gerasimova A.¹, Vyazovaya A.¹, Mayskaya M.², Mokrousov I.¹, Narvskaya O.^{1,3} ¹ St. Petersburg Pasteur Institute, St. Petersburg, Russia; ² City Pathoanatomical Bureau, St. Petersburg, Russia; ³ Research Institute of Phthisiopulmonology, St. Petersburg</p> <p>Genotypes of <i>Mycobacterium tuberculosis</i> isolates from different organs of patients with generalized TB and HIV-coinfection</p>
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2.10	<p>Grobbelaar M.¹, Sampson S.L.¹, Louw G.E.², van Helden P.D.¹, Van Rie A.³, Warren R.M.¹ ¹ DST-NRF Centre of Excellence for Biomedical Tuberculosis Research; South African Medical Research Council Centre for Tuberculosis Research; Division of Molecular Biology and Human Genetics, Faculty of Medicine and Health Sciences, Stellenbosch University, Cape Town, South Africa; ² Institute of Infectious Diseases and Molecular Medicine, University of Cape Town, Cape Town, South Africa; ³ Global Health Institute, Epidemiology and Social Medicine, Faculty of Medicine, University of Antwerp, Antwerp, Belgium</p> <p>Physiological impact of the evolution of the <i>rpoB</i> mutation</p>
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