

October 29, Tuesday (Moscow, Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, RAS)

10:00 - 10:20	OPENING CEREMONY OF THE RUSSIAN-CHINESE LIFE SCIENCES CONGRESS	Congress Hall
10:20 - 11:40	PLENARY LECTURES	Congress Hall
10:20 – 11:00	Mikhail Kovalchuk <i>National Research Center "Kurchatov</i> Institute" Nature-like technologies	
11:40 – 12:20	P00 Muming Institute of Neuroscience, Center for Excellence in Brain Science and Intelligence Technology, Chinese Academy of Sciences Non-human primate models for biomedical research	
12:20 – 13:00	Alexander A. Gabibov Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences Combinatorial approaches in physico-chemical biology	
13:00 - 13:20	Coffee Break	
13:20 - 14:30	Laboratory tour in the Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry	
14:30 - 15:30	Lunch time	
15:30	Departure for the PATRIOT Congress Center	

October 29, Tuesday (PATRIOT Congress Center)

		Hall
18:00 – 18:30	OPENING CEREMONY OF THE VI INTERNATIONAL CONFERENCE "POSTGENOME'2024" AND THE XI RUSSIAN SYMPOSIUM "PROTEINS AND PEPTIDES"	Zhukov
18:30 - 19:50	PLENARY LECTURES	Zhukov
18:30 – 19:10	Evgeny I. Imyanitov Petrov National Medicine Research Center of Oncology Evolution of cancer treatment in the era of molecular diagnostics	
19:10 – 19:50	ZHANG Zemin Peking University From understanding to modulating the tumor microenvironment	
20:00 - 22:00	WELCOME RECEPTION	



October 30, Wednesday (PATRIOT Congress Center)

		Hall
09:00 - 11:00	PLENARY LECTURES	Zhukov
09:00 - 09:40	Olga A. Dontsova Lomonosov Moscow State University Canonical and non-canonical function of telomerase components	
09:40 - 10:20	SUI Senfang <i>Tsinghua University</i> Cryo-EM studies of photosynthetic protein machine of marine red algae	
10:20 – 11:00	Sergey M. Deyev Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences; National Research Centre "Kurchatov Institute"; Research Centrum for Oncotheranostics, Tomsk Polytechnic University Innovative approaches to facilitate tumor treatment	
11:00 - 11:20	COFFEE BREAK	
11:20 - 12:40	PLENARY LECTURES	Zhukov
11:20 - 12:00	Sergey A. Nedospasov Engelhardt Institute of Molecular Biology, Russian Academy of Sciences; Department of Biology, Lomonosov Moscow State University; Sirius University of Science and Technology Proinflammatory cytokines and a novel concept of anticytokine therapy	
12:00 – 12:40	Evgeny L. Nasonov Nasonova Research Institute of Rheumatology Modern concepts of autoimmunity and autoinflammation in rheumatology	
12:40 - 13:55	PLENARY REPORTS	Zhukov
12:40 – 13:05	Petr V. Sergiev Skolkovo Institute of Science and Technology, Center for Molecular and Cell Biology; Belozersky Institute of Physico-Chemical Biology and Institute of Functional Genomics, Lomonosov Moscow State University Methylation of small nuclear RNAs and its role in splicing	
13:05 – 13:30	Alexey A. Belogurov Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences Processing and presentation of antigens as basis for targeted therapy of neurodegeneration of autoimmune and traumatic etiology	
13:30 – 13:55	Roman G. Efemov Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences The technology of "Dynamic Molecular Portrait" in protein biophysics	
13:55 - 14:30	LUNCH BREAK	



14:30 - 16:30	SYMPOSIA	
14:30 - 16:30	Genomic and multi-omix technologies. Session 1	Zhukov
14:30 – 16:30	Biological functions and mechanisms of action of peptides and proteins. Session 1	Kutuzov
14:30 – 16:30	Neurosciences. Session 1	Gallery
14:30 – 16:30	Oncology. Autoimmunity. Immunology. Session 1	Maly Donskoy
14:30 – 16:30	Medicinal products based on peptides and proteins. Session 1	Suvorov
14:30 - 16:30	Chemistry and biology of enzymes. Session 1	Potemkin
14:30 – 16:30	Physical and chemical methods for studying the structure of peptides and proteins. Structure-function relationship. Session 1	Nakhimov
14:30 – 16:30	Systems and synthetic biology. Technology, achievements and risks. Big genetic data. Session 1	Tent
16:30 - 16:50	COFFEE BREAK	
16:50 - 18:50	SYMPOSIA	
16:50 – 18:50	Genomic and multi-omix technologies. Session 2	Zhukov
16:50 – 18:50	Infections (Microbial communities / White spots in medical virology and microbiology / Antibiotic resistance). Session 1	Kutuzov
16:50 – 18:50	Neurosciences. Session 2	Gallery
16:50 – 18:50	Oncology. Autoimmunity. Immunology. Session 2	Maly Donskoy
16:50 – 18:50	Medicinal products based on peptides and proteins. Session 2	Suvorov
16:50 – 18:50	Chemistry and biology of enzymes. Session 2	Potemkin
16:50 – 18:50	Physical and chemical methods for studying the structure of peptides and proteins. Structure-function relationship. Session 2	Nakhimov
16:50 – 18:50	Systems and synthetic biology. Technology, achievements and risks. Big genetic data. Session 2	Tent
09:00 - 19:00	POSTER SESSION. YOUNG SCIENTISTS COMPETITION	



October 31, Thursday (PATRIOT Congress Center)

		Hall
09:00 - 11:00	PLENARY LECTURES	Zhukov
09:00 - 09:40	Sofia G. Georgieva Engelhardt Institute of Molecular Biology, Russian Academy of Sciences Interaction of PBAF remodeling complex with chromatin in proliferating progenitors and differentiated neurons: PHF10 protein and its functions. Role of PHF10 protein in the functioning of the chromatin remodeling complex PBAF	
09:40 - 10:20	LI Jiayang <i>Yazhouwan National Laboratory</i> Phytohormone strigolactones: Biosynthesis and signaling in higher plants	
10:20 - 11:00	Elena N. Ilina Research Institute for Systems Biology and Medicine The human microbiome through the prism of the metagenomics: what do we know?	
11:00 - 11:20	COFFEE BREAK	
11:20 - 12:40	PLENARY LECTURES	Zhukov
11:20 – 12:00	Konstantin V. Severinov Biotech Campus, LLC National Genetic Initiative "100,000+Me"	
12:00 – 12:40	Nikolai A. Kolchanov Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences Bioinformatics, systems computer biology and big genetic data	
12:40 - 13:30	PLENARY REPORTS	Zhukov
12:40 – 13:05	Maxim P. Nikitin Moscow Institute of Physics and Technology (State University); Sirius University of Science and Technology; Abisense LLC, Sirius Molecular commutation of DNA: engaging novel physical methods	
13:05 – 13:30	Evgeny N. Nikolaev Skolkovo Institute of Science and Technology Practice of using methods of quantitative proteomics of physiological fluids based on isotope-labeled peptide standards in the search for protein panels of biomarkers of various diseases	
13:30 - 14:00	LUNCH BREAK	
14:00 - 16:00	SYMPOSIA	
14:00 - 16:00	National Genetic Initiative "100,000+Me". Session 1	Zhukov
14:00 - 16:00	Genomic and multi-omix technologies. Session 3	Kutuzov
14:00 – 16:00	Neuroscience. Session 3	Gallery



14:00 – 16:00	Modern methods of drug development (Teranostics / Targeted delivery / Large and small molecules). Session 1	Maly Donskoy
14:00 – 16:00	Structural biology. Session 1	Suvorov
14:00 – 16:00	Bioengineering of proteins and peptides. Session 1	Potemkin
14:00 – 16:00	Infections (Microbial communities / White spots in medical virology and microbiology / Antibiotic resistance). Session 2	Nakhimov
14:00 – 16:00	Systems and synthetic biology. Technology, achievements and risks. Big genetic data. Session 3	Tent
16:00 - 16:20	COFFEE BREAK	
16:20 - 18:20	SYMPOSIA	
16:20 - 18:20	National Genetic Initiative "100,000+Me". Session 2	Zhukov
16:20 – 18:20	Genomic and multi-omix technologies. Session 4	Kutuzov
16:20 – 18:20	Biological functions and mechanisms of action of peptides and proteins. Session 2	Gallery
16:20 – 18:20	Modern methods of drug development (Teranostics / Targeted delivery / Large and small molecules). Session 2	Maly Donskoy
16:20 - 18:20	Structural biology. Session 2	Suvorov
16:20 – 18:20	Bioengineering of proteins and peptides. Session 2	Potemkin
16:20 – 18:20	Infections (Microbial communities / White spots in medical virology and microbiology / Antibiotic resistance). Session 3	Nakhimov
16:20 – 18:20	Systems and synthetic biology. Technology, achievements and risks. Big genetic data. Session 4	Tent
09:00 - 19:00	POSTER SESSION	
18:30 - 19:30	POSTGENOME SPECIAL EVENT Valentin V. Vlassov Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of the Russian Academy of Sciences Therapeutic nucleic acids: from "targeted reagents" to genetic editing	Zhukov



November 1, Friday (PATRIOT Congress Center)

		Hall
09:00 - 11:00	PLENARY Reports	Zhukov
09:00 - 09:25	Olga N. Tkacheva Russian Research and Clinical Center for Gerontology, Pirogov Russian National Research Medical University Translational approaches to the management of aging processes	
09:250 - 09:50	Elena A. Troshina Endocrinology Research Center The function of the thyroid gland. Focus on key physiological conditions (puberty, pregnancy, breastfeeding, healthy aging)	
09:50 - 10:15	Vladimir V. Poroikov <i>Orekhovich Institute of Biomedical Chemistry</i> AI/ML approaches to assessment of biological activity of pharmaceutical agents <i>in silico</i> . From basic research to applications	
10:15 - 10:40	Alexey N. Tomilin Institute of Cytology, Russian Academy of Sciences New players involved in the acquisition, maintenance, and exit from the state cellular pluripotency	
10:40 - 11:00	COFFEE BREAK	
11:00 - 13:40	PLENARY LECTURES	Zhukov
11:00 – 11:40	Ilya V. Yampolsky Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences Luminescence of living organisms: from basic mechanisms to synthetic biology	
11:40 – 12:20	LI Jinsong Shanghai Institute of Biochemistry and Cell Biology, Center for Excellence in Molecular Cell Science Sperm-like stem cell-mediated semi-cloning technology	
12:20 – 13:00	Sergey V. Razin Institute of Gene Biology, Russian Academy of Sciences 3D genome of lower eukaryotes	
13:00 - 13:40	Dmitry M. Chudakov Institute of Translation Medicine, N.I. Pirogov Russian National Research Medical University TBA	
13:40 - 14:10	LUNCH BREAK	



14:10 - 16:10	SYMPOSIA	
14:10 - 16:10	Genomic and multi-omix technologies. Session 5	Zhukov
14:10 - 16:10	Oncology. Autoimmunity. Session 3	Kutuzov
14:10 – 16:10	Technologies for maintaining optimal health. Norm, biohacking and accelerated aging. Session 1	Gallery
14:10 – 16:10	Plant Biology. Session 1	Maly Donskoy
14:10 – 15:10	HELIKON master class Digital PCR-a highly sensitive method for pathogen analysis	Suvorov
15:10 - 16:10	HELIKON master class Locus Seqtot 1616: Application of Russian capillary electrophoresis in epidemiological studies	Suvorov
14:10 – 16:10	Digital technologies in biomedicine. Bioinformatics, molecular modeling, artificial intelligence, machine learning. Session 1	Potemkin
14:10 – 16:10	Search, isolation and synthesis of new natural peptides and proteins/ Sesion 1	Nakhimov
14:10 – 16:10	Biological functions and mechanisms of action of peptides and proteins. Session 3	Tent
16:10 - 16:30	COFFEE BREAK	
16:30 – 18:30	Genomic and multi-omix technologies. Session 6	Zhukov
	Genomic and multi-omix technologies. Session 6 Oncology. Autoimmunity. Session 4	Zhukov Kutuzov
16:30 – 18:30	_	
16:30 - 18:30 16:30 - 18:30	Oncology. Autoimmunity. Session 4 Technologies for maintaining optimal health. Norm, biohacking	Kutuzov
16:30 - 18:30 16:30 - 18:30 16:30 - 18:30	Oncology. Autoimmunity. Session 4 Technologies for maintaining optimal health. Norm, biohacking and accelerated aging. Session 2	Kutuzov Gallery
16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30	Oncology. Autoimmunity. Session 4 Technologies for maintaining optimal health. Norm, biohacking and accelerated aging. Session 2 Plant Biology. Session 2	Kutuzov Gallery Maly Donskoy
16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30	Oncology. Autoimmunity. Session 4 Technologies for maintaining optimal health. Norm, biohacking and accelerated aging. Session 2 Plant Biology. Session 2 Stem Cells. Session 1 Digital technologies in biomedicine. Bioinformatics, molecular	Kutuzov Gallery Maly Donskoy Suvorov
16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30	Oncology. Autoimmunity. Session 4 Technologies for maintaining optimal health. Norm, biohacking and accelerated aging. Session 2 Plant Biology. Session 2 Stem Cells. Session 1 Digital technologies in biomedicine. Bioinformatics, molecular modeling, artificial intelligence, machine learning. Session 2 Search, isolation and synthesis of new natural peptides and	Kutuzov Gallery Maly Donskoy Suvorov Potemkin
16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30 16:30 - 18:30	Oncology. Autoimmunity. Session 4 Technologies for maintaining optimal health. Norm, biohacking and accelerated aging. Session 2 Plant Biology. Session 2 Stem Cells. Session 1 Digital technologies in biomedicine. Bioinformatics, molecular modeling, artificial intelligence, machine learning. Session 2 Search, isolation and synthesis of new natural peptides and proteins. Session 2 Biological functions and mechanisms of action of peptides and	Kutuzov Gallery Maly Donskoy Suvorov Potemkin Nakhimov



November 2, Saturday (PATRIOT Congress Center)

		Hall
09:00 - 11:00	Systems and synthetic biology. Technology, achievements and risks. Big genetic data. Session 5	Zhukov
09:00 - 11:00	Genomic and multi-omix technologies. Session 7	Kutuzov
09:00 - 11:00	Technologies for maintaining optimal health. Norm, biohacking and accelerated aging. Session 3	Gallery
09:00 - 11:00	Modern methods of drug development (Teranostics / Targeted delivery / Large and small molecules). Session 3	Maly Donskoy
09:00 - 11:00	Stem cells. Session 2	Suvorov
09:00 - 11:00	TBA	Potemkin
09:00 - 11:00	Infections (Microbial communities / White spots in medical virology and microbiology / Antibiotic resistance). Session 4	Nakhimov
11:00 - 11:20	COFFEE BREAK	
11:20 - 12:10	PLENARY REPORTS	Zhukov
11:20 - 11:45	Vladimir P. Chekhonin Russian Academy of Sciences TBA	
11:45 - 12:10	Vladimir V. Kutyrev Russian Research Anti-Plague Institute "Microbe" Epidemiology in the era of post-genome technologies	
12:10 – 12:35	Alexey A. Moskalev Russian Research Gerontology Center Healthy longevity medicine	
12:35 - 13:15	PLENARY LECTURE	Zhukov
12:35 – 13:15	Alexander G. Rumyantsev Dmitry Rogachev National Research Center of Pediatric Hematology, Oncology and Immunology Aging of immune system	
13:15 - 13:40	SUMMING UP THE RESULTS OF THE MIPT CASE CHAMPIONSHIP	Zhukov
13:40 - 14:00	HANDLING OF AWARDS TO THE WINNERS OF THE YOUNG SCIENTISTS COMPETITION. CLOSING OF THE CONGRESS	Zhukov