

II JOINT LIFE SCIENCES FORUM

◆ VI CIS CONGRESS ON PHYSIOLOGY
◆ VI RUSSIAN BIOCHEMICAL CONGRESS
◆ IX RUSSIAN SYMPOSIUM “PROTEINS AND PEPTIDES”

Sochi–Dagomys, October 1–6, 2019

PROGRAM-AT-A-GLANCE

OCTOBER 1st

11.00 – 19.00	Foyer	Registration Desk Open
16.00 – 16.30	Main Hall	CONGRESS OPENING Chairs: Vladimir Chekhonin, Alexander Gabibov, Revaz Sepiashvili, Vsevolod Tkachuk, Kurt Wüthrich
16:30 – 18:55	Main Hall	PLENARY SESSION Chairs: Alexander Gabibov, Revaz Sepiashvili <i>Keynote Lecture</i> KURT WÜTHRICH Signal transfer by G protein-coupled receptors <i>Keynote Lecture</i> VLADIMIR CHEKHONIN Vector nanocontainer systems in diagnostics and therapy of brain tumors <i>Plenary Lecture</i> SERGEY DEYEV Supramolecular structures-based oncotheranostics <i>Plenary Lecture</i> IGOR RESHETOV New paradigm in clinical oncology <i>Plenary Lecture</i> MIKHAIL OSTROVSKY Molecular physiology of the vision: rhodopsin
16.30 – 17.15		
17.15 – 17:55		
17:55 – 18:25		
18:25 – 18:55		
18:55 – 19:25		
19:40 – 22:00		Get Together Party

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OCTOBER 2nd

08:00 – 10:00	Main Hall	PLENARY SESSION OF THE IX RUSSIAN SYMPOSIUM “PROTEINS AND PEPTIDES” Chair: Vadim Ivanov ALEXANDER ARCHAKOV Challenges of the Human Proteome Project: 10-year experience of the Russian Consortium ALEXEY FINKELSTEIN 60+ years of protein folding MIKHAIL BOGDANOV Membrane protein folding VALENTIN GORDELIY Membrane proteins: Methods, structure, molecular mechanisms and applications IVAN SMIRNOV Ultrahigh-throughput screening technologies to discover new therapeutics	
08:10 – 08:40			
08:40 – 09:00			
09:00 – 09:20			
09:20 – 09:40			
09:40 – 10:00			
08:00 – 10:00	Hall # 1	S Y M P O S I A	NEURODEGENERATIVE DISEASES: FROM BASIC KNOWLEDGE OF PATHOGENESIS MECHANISMS TO DIAGNOSTICS AND TREATMENT. Chair: Mikhail Ugryumov. Session 1 (Moderators: Nataliya Gulyaeva, Piotr Slominsky)
08:00 – 10:00	Hall # 2		CREATION OF INTELLECTUAL SENSOR AND BIOMECHATRON REHABILITATION TECHNOLOGIES FOR PATIENTS WITH SEVERE DAMAGES OF THE SENSOR-MOTOR SYSTEM BASED ON THE INTEGRATION OF THE NEWEST ACHIEVEMENTS IN BRAIN SCIENCES Chairs: Anatoly Grigoriev, Inesa Kozlovskaya. Session 1
08:00 – 10:00	Hall # 3		SYNAPTIC AND EXTRASYNAPTIC MECHANISMS OF SIGNAL TRANSMISSION IN NORM AND PATHOLOGY Chairs: Lev Magazanik, Alexey Semyanov, Alexey Zaitsev, Andrey Zefirov. Session 1 (Moderators: Lev Magazanik, Alexey Zaitsev)
08:00 – 10:00	Hall # 4		ADAPTATION, STRESS AND HEALTH Chairs: Vitaly Degtyarev, Fedor Furdui, Firus Shukurov
08:00 – 10:00	Hall # 5		INHIBITION AND PLASTICITY Chairs: Pavel Balaban, Alexey Malyshev
08:00 – 10:00	Hall # 6		MODERN PHYSIOLOGY OF THE HEART (Chairs: Denis Abramochkin, Alexander Panfilov, Irina Roshchevskaya, Mikhail Roshchevsky, Olga Solovyova) Session 1
10:15 – 10:55	Main Hall	<i>Ivan Pavlov Keynote Lecture</i> MIKHAIL UGRYUMOV <i>A new paradigm for the fight against neurodegenerative diseases based on integrative physiology, preventive and translational medicine</i> Moderators: Svyatoslav Medvedev, Mikhail Ostrovskiy	
10:55 – 11:35	Main Hall	<i>Keynote Lecture</i> ARIEH WARSHEL Modeling the action of biological molecules Moderators: Michael Blackburn, Alexander Gabibov	
11:35 – 12:00		Coffee Break	
12:00 – 12:30	Main Hall	<i>Leon Orbeli Keynote Lecture</i> YURI NATOCHIN Physiology: modernity and classic Moderators: Revaz Sepiashvili, Vsevolod Tkachuk	
12:30 – 14:00	Main Hall	PLENARY SESSION Chairs: Olga Dontsova, Vadim Ivanov VSEVOLOD TKACHUK Regulation of cell renewal, tissue regeneration and repair processes MICHAEL BLACKBURN HYDROGEN BONDING – The dominant factor in enzyme phosphoryl transfer PIOTR SERGIEV Functional role of new mitochondrial proteins	
12:30 – 13:00			
13:00 – 13:30			
13:30 – 14:00			
12:30 – 14:00		ROUND TABLE DISCUSSION “PROBLEMS OF MODERN PHYSIOLOGY” Session 1. Moderators: Yuri Denisenko, Lyudmila Matveeva, Alla Zolotukhina	
14:00 – 15:00		Lunch Time	

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OCTOBER 2nd

15:00 – 15:40	Main Hall	<i>Ivan Sechenov Keynote Lecture</i> ALEXANDER NOZDRACHEV Multimodal interoceptive sensory system Moderators: Oleg Bukharin, Mikhail Roshchevsky	
15:40 – 16:20	Main Hall	<i>Plenary Lecture</i> ALEXEY EGOROV, MARIA RUBTSOVA Bacterial enzymes – targets of beta-lactams: evolution and resistance Moderator: Sergey Kochetkov	
16:30 – 18:30	Main Hall	S Y M P O S I A	CREATION OF INTELLECTUAL SENSOR AND BIOMECHATRON REHABILITATION TECHNOLOGIES FOR PATIENTS WITH SEVERE DAMAGES OF THE SENSOR-MOTOR SYSTEM BASED ON THE INTEGRATION OF THE NEWEST ACHIEVEMENTS IN BRAIN SCIENCES Chairs: Anatoly Grigoriev, Inesa Kozlovskaya. Session 2
16:30 – 19:50	Hall # 1		NEURODEGENERATIVE DISEASES: FROM BASIC KNOWLEDGE OF PATHOGENESIS MECHANISMS TO DIAGNOSTICS AND TREATMENT. Chair: Mikhail Ugryumov. Session 2 (Moderators: Nataliya Bobkova, Svetlana Limborskaya)
16:30 – 18:30	Hall # 2		MOLECULAR MECHANISMS OF KIDNEY FUNCTION IN HOMEOSTASIS Chairs: Fira Dzugkoeva, Yuri Natochin
16:30 – 18:30	Hall # 3		PROTEINS AND PEPTIDES “Search for New Natural Peptides and Proteins and Their Isolation” Chairs: Yuri Utkin, Alexander Vassilevski. Session 1
16:30 – 18:30	Hall # 4		NEUROGENESIS IN THE HIPPOCAMPUS: FUNCTIONAL VALUE IN THE CONTINUUM “PLASTICITY – PATHOLOGY” Chairs: Viktor Aniol, Mikhail Stepanichev
16:30 – 18:30	Hall # 5		PROTEINS AND PEPTIDES “Physical-Chemical Methods in Study of Peptide and Protein Structure ‘Structure—Function’ Relationship” Chairs: Roman Efremov, Alexey Finkelstein. Session 1 (Moderators: Roman Efremov, Valentin Gordeliy)
16:30 – 18:30	Hall # 6		BIOCHEMISTRY AND MOLECULAR MEDICINE Chairs: Boris Dzantiev, Alexey Egorov, Nataliya Klyachko, Ivan Smirnov. Session 1 “New Trends in Bio-Drug and Nanomaterials Design” (Moderators: Nataliya Klyachko, Ekaterina Kolesanova)
18:40 – 20:00 18:40 – 19:00 19:00 – 20:00	Main Hall	PLENARY SESSION Chair: Nikolai Veselkin, Mikhail Roshchevsky TATIANA SLAVYANSKAYA, REVAZ SEPIASHILI Immune surveillance and the role of immune checkpoints in cancer control ALEXANDER NOZDRACHEV Nobel Prizes in Physiology or Medicine (Biology)	
09.00 – 19.00		YOUNG SCIENTISTS’ COMPETITION	

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OCTOBER 3rd

08:00 – 10:00	Main Hall	S Y M P O S I A	PROTEINS AND PEPTIDES “Biological Functions and Mechanisms of Action of Peptides and Proteins” Chairs: Alexei Belogurov, Sergey Deyev. Session 1
08:00 – 10:00	Hall # 1		MOLECULAR MECHANISMS OF HYPOXIA Chairs: Lyudmila Lukyanova, Elena Rybnikova, Igor Zhuravin
08:00 – 10:00	Hall # 2		PLANT BIOCHEMISTRY Chairs: Alexander Grechkin, Dmitry Los
08:00 – 10:00	Hall # 3		SPACE AND GRAVITATION PHYSIOLOGY Chairs: Boris Shenkman, Elli Bukhareva
08:00 – 10:00	Hall # 4		MOLECULAR IMAGING Chairs: Konstantin Lukyanov, Alexander Savitsky
08:00 – 10:00	Hall # 5		FUNCTIONAL GENOMICS Chairs: Sergei Razin, Yegor Vassetzky
08:00 – 10:00	Hall # 6		BIOCHEMISTRY AND MOLECULAR MEDICINE Chairs: Boris Dzantiev, Alexey Egorov, Nataliya Klyachko, Ivan Smirnov. Session 2 “Structure of Immunoglobulins and New Vaccines” (Moderators: Alexey Egorov, Andrey Vasin)
10:15 – 11:00	Main Hall	<i>Keynote Lecture</i> AARON CIECHANOVER : The revolution of personalized medicine: are we going to defeat all diseases and at what price? Moderator: Revaz Sepiashvili	
11:00 – 11:40	Main Hall	PLENARY SESSION Chair: Egor Prokhortchouk ALEXEY BELOGUROV : Molecular mechanisms of substrates recognition by regulatory proteasome subparticles DMITRY CHUDAKOV : Analysis of T cell receptor and antibody repertoires: practical applications	
11:00 – 11:20			
11:20 – 11:40			
11:40 – 12:10		Coffee Break	
12:10 – 13:50	Main Hall	PLENARY SESSION Chair: Alexander Gabibov ANTON MAXIMOV Molecular mechanisms of memory storage VICTOR TARABYKIN Molecular genetic bases for the cerebral cortex development ILYA BEZPROZVANNY Sigma-1 receptor as a new target to treat neurogenerative diseases SERGEY RAZIN 3D genomics	
12:10 – 12:35			
12:35 – 13:00			
13:00 – 13:25			
13:25 – 13:50			
12:10 – 14:00	Hall # 1	ROUND TABLE DISCUSSION “PROBLEMS OF MODERN PHYSIOLOGY” Session 2. Moderators: Lyudmila Gubareva, Yuri Luchakov	
13:50 – 14:45		Lunch Time	
14:45 – 15:45	Main Hall	PLENARY SESSION Chairs: Alexander Archakov, Ilya Bykov, Lev Magazanik, Tatiana Slavyanskaya RUDOLF VALENTA : Towards prophylactic vaccination against allergy MENAHM SEGAL : Alzheimer’s disease in mouse hippocampal slices and culture	
14:45 – 15:15			
15:15 – 15:45			

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OCTOBER 3rd

16:00 – 18:00	Main Hall	S Y M P O S I A	PROTEINS AND PEPTIDES “Innovative Peptide- and Protein-Based Medicines” Chairs: Nikolai Myasoedov, Tatiana Ovchinnikova. Session 1
16:00 – 18:00	Hall # 1		PHYSIOLOGY OF THE IMMUNE SYSTEM Chairs: Revaz Sepiashvili, Tatiana Slavyanskaya, Valery Chereshev. Session 1
16:00 – 18:00	Hall # 2		CHEMISTRY AND BIOLOGY OF NUCLEIC ACIDS (Chairs: Olga Dontsova, Georgy Georgiev, Andrei Konevega, Maria Rubtsova, Piotr Sergiev). Session 1 “Organization, Maintenance and Functioning of the Genome” (Moderators: Olga Lavrik, Sergey Razin)
16:00 – 18:00	Hall # 3		PROTEINS AND PEPTIDES “Search for New Natural Peptides and Proteins and Their Isolation” Chairs: Yuri Utkin, Alexander Vassilevski. Session 2
16:00 – 18:00	Hall # 4		PHYSICAL AND CHEMICAL METHODS IN RESEARCH OF PHYSIOLOGICAL PROCESSES AND SYSTEMS Chairs: Vladimir Oleinikov, Irina Zavestovskaya
16:00 – 18:00	Hall # 5		MODERN PHYSIOLOGY OF THE HEART (Chairs: Denis Abramochkin, Alexander Panfilov, Irina Roshchevskaya, Mikhail Roshchevsky, Olga Solovyova) Session 2
16:00 – 18:00	Hall # 6		BIOCHEMISTRY AND MOLECULAR MEDICINE Chairs: Boris Dzantiev, Alexey Egorov, Nataliya Klyachko, Ivan Smirnov. Session 3. “Neurobiochemistry” (Chairs: Svetlana Demyanenko, Sergey Seredenin, Piotr Slominsky)
16:00 – 18:00	Hall # 7		MOLECULAR CELL PHYSIOLOGY. RECEPTORS, ION CHANNELS AND SYGNALLING SYSTEMS Chairs: Pavel Avdonin, Elena Kaznacheyeva, Stanislav Kolesnikov, Denis Tikhonov. Session 1 (Moderators: Pavel Avdonin, Elena Kaznacheyeva)
18:00 – 18:15		Break	
18:15 – 20:15	Main Hall	S Y M P O S I A	PHYSIOLOGICAL ASPECTS OF TUMOR GROWTH Chairs: Mamed Aliev, Mikhail Krasilnikov
18:15 – 20:15	Hall # 1		PHYSIOLOGY OF THE IMMUNE SYSTEM Chairs: Valery Chereshev, Manana Chikhladze, Revaz Sepiashvili, Tatiana Slavyanskaya. Session 2
18:15 – 20:15	Hall # 2		CHEMISTRY AND BIOLOGY OF NUCLEIC ACIDS Chairs: Olga Dontsova, Georgy Georgiev, Andrei Konevega, Maria Rubtsova, Piotr Sergiev. Session 2 “Functional and Regulatory RNAs” (Moderators: Olga Dontsova, Dmitry Pervouchine)
18:15 – 20:15	Hall # 3		NEUROBIOLOGY OF ADDICTIVE DISORDERS Chairs: Alexey Egorov, Piotr Shabanov
18:15 – 20:30	Hall # 4		PROTEINS AND PEPTIDES “Physical-Chemical Methods in Study of Peptide and Protein Structure. ‘Structure—Function’ Relationship” Chairs: Roman Efremov, Alexey Finkelstein. Session 2 (Moderators: Alexey Finkelshtein, Vladimir Polshakov)
18:15 – 20:15	Hall # 5		FUNCTIONAL GENOMICS Chairs: Sergei Razin, Yegor Vassetzky
18:15 – 20:15	Hall # 6		BIOCHEMISTRY AND MOLECULAR MEDICINE Chairs: Boris Dzantiev, Alexey Egorov, Nataliya Klyachko. Session 4. “Principles and Methods of Molecular Diagnostics” (Moderators: Boris Dzantiev, Ilya Kurochkin)
18:15 – 20:15	Hall # 7		MOLECULAR CELL PHYSIOLOGY. RECEPTORS, ION CHANNELS AND SYGNALLING SYSTEMS Chairs: Pavel Avdonin, Elena Kaznacheyeva, Stanislav Kolesnikov, Denis Tikhonov. Session 2 (Moderators: Elena Kaznacheyeva, Stanislav Kolesnikov)
20:30 – 21:00		CIS UNION OF PHYSIOLOGICAL SOCIETIES: PLENUM OF THE BOARD	
09.00 – 19.00		YOUNG SCIENTISTS’ COMPETITION // POSTER SESSION	

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OCTOBER 4th

08:00 – 10:00	Main Hall	SYMPOSIUM	PROTEINS AND PEPTIDES «Biological Functions and Mechanisms of Action of Peptides and Proteins» Chairs: Alexei Belogurov, Sergey Deyev. Session 2
08:00 – 10:00	Hall # 1		CHEMISTRY AND BIOLOGY OF NUCLEIC ACIDS Chairs: Olga Dontsova, Georgy Georgiev, Andrei Konevega, Maria Rubtsova, Piotr Sergiev. Session 3 “Translation and RNA Tools” (Moderators: Pavel Georgiev, Andrey Kulbachinsky)
08:00 – 10:00	Hall # 2		BIOENGINEERING: FUNDAMENTALS AND APPLICATIONS Chairs: Vladimir Popov, Alexander Yanenko. Session 1 (Moderators: Vladimir Popov, Alexander Yanenko)
08:00 – 10:00	Hall # 3		PHYSIOLOGICAL MECHANISMS OF HEALTH AND ITS TARGETED FORMATION Chairs: Fedor Furdui, Alexander Gozhenko, Valentina Chokine, Firus Shukurov
08:00 – 10:00	Hall # 4		MOLECULAR IMAGING Chairs: Konstantin Lukyanov, Alexander Savitsky. Session 2
08:00 – 10:00	Hall # 5		GENOM. PROTEOM. METABOLOM Chairs: Alexander Archakov, Vadim Govorun, Elena Ilina, Andrei Lisitsa Session 1 “Genomics and Metagenomics” (Moderators: Elena Filatova, Eduard Generozov)
08:00 – 10:00	Hall # 6		BIOCHEMISTRY AND MOLECULAR MEDICINE Chairs: Boris Dzantiev, Alexey Egorov, Nataliya Klyachko, Ivan Smirnov. Session 5. “Molecular Oncology” (Moderators: Elena Kalinina, Nikolai Litvyakov)
08:00 – 10:00	Hall # 7		MOLECULAR CELL PHYSIOLOGY. RECEPTORS, ION CHANNELS AND SYGNALLING SYSTEMS Chairs: Pavel Avdonin, Elena Kaznacheyeva, Stanislav Kolesnikov, Denis Tikhonov. Session 3 (Moderators: Stanislav Kolesnikov, Denis Tikhonov)
10:15 – 11:00	Main Hall	<i>Platon Kostyuk Keynote Lecture</i> SVYATOSLAV MEDVEDEV The hidden links of the brain systems Moderators: Nikolai Veselkin, Mikhail Ostrovsky, Mikhail Ugryumov	
11:00 – 11:30	Main Hall	<i>Iliia Metchnikoff Keynote Lecture</i> OLEG BUKHARIN Infectology from Iliia Metchnikoff to the present day. Moderators: Irina Balmasova, Sergey Deyev	
10:15 – 11:45	Hall # 2	GE Healthcare Master class Preparative protein chromatography in modern lab	
11.30 – 12.00		Coffee Break	
12.00 – 13:20	Main Hall	PLENARY SESSION Chair: Alexey Egorov SERGEY KOCHETKOV Cell reactions at viral infection VADIM GOVORUN, ELENA ILINA Metaboloc potential of gut microbiota NIKOLAI RAVIN Metagenomics: genome analysis of microorganisms without their cultivation	
12:00 – 13:20	Hall # 1	ROUND TABLE DISCUSSION “PROBLEMS OF MODERN PHYSIOLOGY” Session 2. Moderators: Olga Balezina, Galina Pavlova	
13:20 – 14:20		Lunch Time	
14.20 – 15.00	Main Hall	<i>Keynote Lecture</i> VALERY CHERESHNEV, MARGARITA CHERESHNEVA The development of physiology and immunology: Sechenov, Metchnikoff, Pasteur Moderators: Alexander Nozdrachev, Tatiana Slavyanskaya	
15:00 – 15:45	Main Hall	PLENARY SESSION Chair: Alexander Grechkin ILYA YAMPOLSKY Mechanisms of light emission by living organisms EVGENY NIKOLAEV Mass spectrometry assisted tissue imaging. The current state of research	

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OCTOBER 4th

16:00 – 18:00	Main Hall	SYMPOSIUM	SYNAPTIC AND EXTRASYNAPTIC MECHANISMS OF SIGNAL TRANSMISSION IN NORM AND PATHOLOGY Chairs: Lev Magazanik, Alexey Semyanov, Alexey Zaitsev, Andrey Zefirov. Session 2 (Moderator: Andrey Zefirov)
16:00 – 18:00	Hall # 1		CHEMISTRY AND BIOLOGY OF NUCLEIC ACIDS Chairs: Olga Dontsova, Georgy Georgiev, Andrei Konevega, Maria Rubtsova, Piotr Sergiev. Session 4 “Translation” (Moderators: Andrey Konevega, Piotr Sergiev)
16:00 – 18:00	Hall # 2		PROBLEMS OF SELECTION, PERFORMANCE AND ADAPTATION OF HUMAN IN THE FAR NORTH AND IN THE ARCTIC Chairs: Evgeny Boiko, Arkady Maximov
16:00 – 18:00	Hall # 3		FUNCTIONAL INTERACTIONS BETWEEN HUMAN BRAIN STRUCTURES AS THE BASIS OF THE BRAIN SYSTEM ACTIVITY Chairs: Maxim Kireev, Svyatoslav Medvedev
16:00 – 18:00	Hall # 4		PROTEINS AND PEPTIDES “Bioengineering of Proteins and Peptides” Chairs: Dmitry Dolgikh, Alexey Fedorov. Session 1
16:00 – 18:00	Hall # 5		GENOM. PROTEOM. METABOLOM Chairs: Alexander Archakov, Vadim Govorun, Elena Ilina, Andrei Lisitsa. Session 2 “Genomics and Metagenomics” (Moderators: Elena Ilina, Alexander Merkel)
16:00 – 18:00	Hall # 6		BIOCHEMISTRY AND MOLECULAR MEDICINE Chairs: Boris Dzantiev, Alexey Egorov, Nataliya Klyachko, Ivan Smirnov. Session 6. “Molecular Oncology” (Moderators: Konstantin Efetov, Elena Mil)
16:00 – 18:00	Hall # 7		GLYCOBIOLOGY Chairs: Nikolai Bovin, Tatiana Gorshkova. Session 1 (Moderators: Leonid Kononov, Lyudmila Kozlova)
18:00 – 18:15		Break	
18:15 – 20:15	Main Hall	SYMPOSIUM	PROTEINS AND PEPTIDES “Chemistry and Biology of Enzymes” Chairs: Sergey Kochetkov, Olga Lavrik. Session 1
18:15 – 20:15	Hall # 1		SYNAPTIC AND EXTRASYNAPTIC MECHANISMS OF SIGNAL TRANSMISSION IN NORM AND PATHOLOGY Chairs: Lev Magazanik, Alexey Semyanov, Alexey Zaitsev, Andrey Zefirov. Session 3 (Moderators: Alexey Semyanov)
18:15 – 20:15	Hall # 2		PROTEINS AND PEPTIDES «Innovative Peptide- and Protein-Based Medicines” Chairs: Nikolai Myasoedov, Tatiana Ovchinnikova. Session 2
18:15 – 20:15	Hall # 3		ROUND TABLE DISCUSSION. TEACHING PHYSIOLOGY. Moderators: Vitaly Degtyarev, B. Nigmatullin, Alexander Nozdrachev, Mikhail Roshchevsky, Revaz Sepiashvili, Firuz Shukurov
18:15 – 20:15	Hall # 4		REGENERATIVE PHYSIOLOGY / BIOCHEMICAL ASPECTS OF CELL TECHNOLOGIES Chairs: Lyudmila Buravkova, Maria Lagarkova, Vsevolod Tkachuk
18:15 – 20:15	Hall # 5		GENOM. PROTEOM. METABOLOM Chairs: Alexander Archakov, Vadim Govorun, Elena Ilina, Andrei Lisitsa. Session 3 “System Biology” (Moderators: Vassily Lazarev, Igor Fesenko)
18:15 – 20:15	Hall # 6		PROTEINS AND PEPTIDES “Physical-Chemical Methods in Study of Peptide and Protein Structure. ‘Structure—Function’ Relationship” Chairs: Roman Efremov, Alexey Finkelstein). Session 3 (Moderators: Oxana Galzitskaya, Alexey Feofanov)
18:15 – 20:15	Hall # 7	GLYCOBIOLOGY Chairs: Nikolai Bovin, Tatiana Gorshkova. Session 2 (Moderators: Yulia Fedonenko, Anna Kulminskaya)	
09.00 – 19.00		POSTER SESSION	

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OCTOBER 5th

08:00 – 10:00	Main Hall	S Y M P O S I A	BIOCHEMISTRY AND MOLECULAR MEDICINE Chairs: Boris Dzantiev, Alexey Egorov, Nataliya Klyachko, Ivan Smirnov. Session 7 “Biochemical Aspects of Pathology Development” YOUNG SCIENTISTS’ SCHOOL “Biochemical Aspects of Pathology Development in Autoimmune and Lymphoproliferative Diseases” (Moderators: Martin Herrmann, Roman Zinovkin)
08:00 – 10:00	Hall # 1		NEW TECHNOLOGIES FOR ASSESSING THE STATES OF ADAPTATION AND DISADAPTATION OF A HUMAN Chairs: Gulnar Dzhususova, Sergey Krivoschekov, Svyatoslav Soroko
08:00 – 10:00	Hall # 2		PROTEINS AND PEPTIDES “Biological Functions and Mechanisms of Action of Peptides and Proteins” Chairs: Alexei Belogurov, Sergey Deyev. Session 3
08:00 – 10:00	Hall # 3		PHYSIOLOGY, PATHOLOGY AND BIOCHEMISTRY OF HEMOSTASIS Chairs: Fazoil Attaullakhanov, Mikhail Pantelev. Session 1
08:00 – 10:00	Hall # 4		BIOENGINEERING: FUNDAMENTALS AND APPLICATIONS Chairs: Vladimir Popov, Alexander Yanenko. Session 2 (Moderators: Nikolai Pimenov, Nikolai Ravin)
08:00 – 10:00	Hall # 5		GENOM. PROTEOM. METABOLOM Chairs: Alexander Archakov, Vadim Govorun, Elena Ilina, Andrei Lisitsa Session 4 (Moderators: Mikhail Gorshkov, Lyudmila Smirnova)
08:00 – 10:00	Hall # 6		COMPENSATOR RESOURCES OF THE BRAIN IN NORM AND PATHOLOGY Chair: Olga Razumnikova
08:00 – 10:00	Hall # 7		INTEGRATIVE MECHANISMS IN REGULATION OF VISCERAL FUNCTIONS Chairs: Lyudmila Filaretova, P. Ferdinandy
10:15 – 11:45	Main Hall	PLENARY SESSION Chairs: Alexey Belogurov, Oleg Bukharina FAZIOL ATTAULLAKHANIV Physiology and biomechanics of mitosis VLADIMIR SKREBITSKY Peptidergic modulation of synaptic transmission in the hippocampus MUSA KHAITOV Innovative strategies for creating drugs for the prevention and treatment of immuno-mediated diseases	
11.40 – 12.10		Coffee Break	
12:10 – 13:30	Main Hall	PLENARY SESSION Chairs: Musa Khaitov, Ivan Smirnov DMITRY ZOROV Potassium energy of mitochondria DMITRY GRYADUNOV Hydrogel biochips as a tool for personalized medicine in present and future TATIANA GORSHKOVA Cell wall: a reliance of plant kingdom	
13:50 – 14:30		Lunch Time	
14.30 – 15.00	Main Hall	<i>Oleg Gzenko Keynote Lecture</i> MIKHAIL KHOMENKO Contribution of Oleg Gzenko to the formation of aviation and space physiology, biology and medicine Moderators: Anatoly Grigoriev, Inesa Kozlovskaya	
15.00 – 15.30	Main Hall	<i>Plenary Lecture</i> ANDREI ZEFIROV Presynaptic vesicular cycle: Physiological value, molecular mechanisms, regulation Moderator: Alexander Nozdrachev	
14:30 – 15:30	Hall # 5	GENOM. PROTEOM. METABOLOM Chairs: Alexander Archakov, Vadim Govorun, Elena Ilina, Andrei Lisitsa RHUPO Round Table Discussion (Moderators: Andrei Lisitsa, Elena Zorina)	

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PROGRAM-AT-A-GLANCE

OCTOBER 5th

15:45 – 18.00	Main Hall	S Y M P O S I A	PROTEINS AND PEPTIDES “Chemistry and Biology of Enzymes” Chairs: Olga Lavrik, Sergei Kochetkov. Session 2
15:45 – 17.45	Hall # 1		CHEMISTRY AND BIOLOGY OF NUCLEIC ACIDS Chairs: Olga Dontsova, Pavel Georgiev, Andrei Konevega, Maria Rubtsova, Piotr Sergiev. Session 5 “Translation” (Moderators: Zoya Ignatova, Tatiana Pestova)
15:45 – 17.45	Hall # 2		EXECUTIVE FUNCTIONS AND BRAKING PROCESSES IN ONTOGENESIS Chair: Elena Nikolaeva
15:45 – 17.45	Hall # 3		MECHANISMS OF VISCERAL REGULATION Chairs: Piotr Maslyukov, Alexander Nozdrachev
15:45 – 17.05	Hall # 4		PROTEINS AND PEPTIDES “Bioengineering of Proteins and Peptides” Chairs: Dmitry Dolgikh, Alexey Fedorov. Session 2
15:45 – 17.45	Hall # 5		GENOM. PROTEOM. METABOLOM Chairs: Alexander Archakov, Vadim Govorun, Elena Ilina, Andrei Lisitsa Session 5 “Proteomics and Metabolomics” (Oxana Trifonova, Vadim Yanshole)
15:45 – 17.45	Hall # 6		BIOCHEMISTRY AND MOLECULAR MEDICINE Chairs: Boris Dzantiev, Alexey Egorov, Nataliya Klyachko, Ivan Smirnov. Session 8 “Biochemical Aspects of Pathology Development and Immunology” (Moderators: Vadim Kashuro, Boris Kershengoltz)
15:45 – 17.45	Hall # 7		PHYSIOLOGY, PATHOLOGY AND BIOCHEMISTRY OF HEMOSTASIS Chairs: Fazoil Attaullakhanov, Mikhail Panteleev. Session 2
17:10 – 18:00	Hall # 4		FROM CELL PHYSIOLOGY TO MOLECULAR PHARMACOLOGY Chairs: Tatiana Gudasheva, Alexander Tyukavin
09:00 – 16:00			POSTER SESSION
18:15 – 19:00	Main Hall		CLOSING CEREMONY. Handling of awards to the authors of best poster presentations and winners of Young Scientists’ Competition Chairs: Alexander Gabibov, Revaz Sepiashvili