

## PROGRAMME

### 6th International Conference

### Genetics & Biotechnology of the 21st Century: Challenges, Achievements and Prospects

### Timed to the 60th Anniversary of the Institute of Genetics & Cytology, NAS of Belarus

Event dates: November 18-20, 2025

Venue: Renaissance Minsk Hotel, 1E Dzerzhinsky Ave., Minsk

#### **TUESDAY, November 18, 2025**

**Conference Hall, Renaissance Minsk Hotel, 1E Dzerzhinsky Ave., Minsk**

#### **09:00 – 09:30 REGISTRATION**

**09:30 – 09:40 OPENING** – Director of the Institute of Genetics and Cytology, NAS of Belarus, L.E. Makarina-Kibak

**Welcoming remarks to the Conference participants from the Presidium and the Department of Biological Sciences, NAS of Belarus**

*Plenary report: 09:40 – 13:00. Report duration – 20 minutes; questions – 10 minutes*

*Moderators:*

L.E. Makarina-Kibak, DMSc, Professor

P.M. Morozik, Deputy Director for Science

A.V. Kilchevsky, Academician of NAS of Belarus, Professor

S.I. Kutsev, DMSc, Academician of the Russian Academy of Sciences

<b>09:45 - 10:05</b>	<b>L.E. Makarina-Kibak</b> DMSc, Professor	Director	INSTITUTE OF GENETICS & CYTOLOGY, NAS OF BELARUS: SIX DECADES OF SCIENTIFIC DEVELOPMENT
	<b>P.M. Morozik</b> PhD (Biology)	Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of	

		Belarus	
<b>10:15-10:35</b>	<b>S.I. Kutsev</b> DMSc, Academician of the Russian Academy of Sciences	Director Federal State Budgetary Scientific Institution “Academician N.P. Bochkov Medical Genetics Research Center”	PRESENT-DAY POSSIBILITIES OF HEREDITARY DISEASES DIAGNOSTICS
<b>10:45-11:05</b>	<b>V.A. Stepanov</b> D.Sc. in Biology, Academician PAH	Director Tomsk National Research Medical Center of the Russian Academy of Sciences	HUMAN GENOMICS AND TRANSCRIPTOMICS AND MEDICAL GENETICS
<b>11:15-11:35</b>	<b>E.K. Khusnutdinova</b> D.Sc. in Biology, Professor Corresponding Member of the Russian Academy of Science	Academic supervisor Institute of Biochemistry and Genetics of Ufa Federal Research Center of the Russian Academy of Sciences	ETHNOGENOMICS OF HEREDITARY PATHOLOGY
<b>11:45-12:05</b>	<b>A.V. Misyurin</b> PhD (Biology)	Director Federal State Budgetary Scientific Institution “N.I. Vavilov Institute of General Genetics of the Russian Academy of Sciences”	TESTICULAR CANCER ANTIGENS – PROGNOSTIC FACTORS AND A PROMISING TARGET FOR CANCER TREATMENT

12:10-12:30	<b>Munis Dunder</b> Professor of Medical Genetics	Erciyes University Turkey	MEDICAL GENETICS AND PERSONALIZED MEDICINE
12:40-13:00	<b>A.S. Glotov</b> D.Sc. in Biology	Head of the Committee on Medical Genomics, Cytogenetic and Molecular Genetic Technologies, E.I. Schwartz Association, Head of the Department of Genomic Medicine named after V.S. Baranov, Research Institute of Obstetrics, Gynecology and Reproductive Medicine named after D.O. Ott	THE FUTURE OF GENETIC TESTING AND MONITORING FOR COUPLES PLANNING PREGNANCY
<b>13:00-14:00 Lunch</b>			
<p><i>Plenary reports: 14:00 – 16:40. Report duration – 20 minutes; questions – 10 minutes</i></p> <p><i>Moderators:</i></p> <p>S.I. Grib, DAgrSc, Academician of NAS of Belarus</p> <p>A.V. Kochetov, D.Sc. (Biology), Academician of the Russian Academy of Sciences</p>			
14:00-14:20	<b>S.I. Grib</b> DAgrSc, Academician of NAS of Belarus	Republican Unitary Enterprise “Scientific and Practical Center of the National Academy of Sciences of Belarus for Agriculture”	PRIORITIES, RESULTS AND RESERVES OF AGRICULTURAL PLANT BREEDING AT THE SCIENTIFIC AND PRACTICAL CENTER OF THE NAS OF BELARUS

14:30-14:50	<b>I.A. Tikhonovich,</b>  D.Sc. in Biology, Academician of the Russian Academy of Sciences	Scientific Director  All-Russian Research Institute of Agricultural Microbiology  St. Petersburg, Russian Federation	USING THE POTENTIAL OF MICROBIAL PLANT SYSTEMS IN PRESENT DAY LAND HUSBANDRY
15:00-15:20	<b>A.V. Kochetov</b>  D.Sc. in Biology, Academician of the Russian Academy of Sciences	Director  Federal State Budgetary Scientific Institution “Federal Research Center Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences”	GENETICS AND PLANTS
15:30-15:50	<b>E.K. Khlestkina</b>  D.Sc. in Biology, Professor of the Russian Academy of Sciences	Director  Federal Research Center “All-Russian Institute of Plant Genetic Resources named after N.I. Vavilov”, St. Petersburg, Russia	GENETIC RESOURCES AND GENETIC TECHNOLOGIES FOR BIOECONOMY
16:00-16:20	<b>V.E. Padutov</b>  D.Sc. in Biology Corresponding Member of NAS of Belarus	Head of the Laboratory of Genetics and Biotechnology, Institute of Forestry, NAS of Belarus, Gomel	GENETIC RESISTANCE FORMATION MECHANISMS FOR THE FOREST VEGETATION TO BIOTIC AND ABIOTIC FACTORS
16:30-16:40	<b>Ya.I. Alekseev</b>	Scientific Director Scientific and Production	MODERN RUSSIAN MOLECULAR GENETIC RESEARCH TECHNOLOGIES

	PhD (Biology)	Company Syntol	
<b>RECEPTION for Conference Participants</b>			
<b>WEDNESDAY, November 19, 2025</b>			
<b>Conference Hall, Renaissance Minsk Hotel, 1E Dzerzhinsky Ave., Minsk</b>			
<i>Plenary reports: 09:30 – 13:00. Report duration – 20 minutes; questions – 5-10 minutes</i>  <i>Moderators:</i> A.V. Kilchevsky, D.Sc. (Biology), Professor, Academician of NAS of Belarus L.E. Makarina-Kibak, DMSc, Professor O.S. Glotov, D.Sc. (Biology), Professor			
<b>9:30-9:50</b>	<b>A.V. Kilchevsky</b>  D.Sc. in Biology, Professor, Academician of NAS of Belarus	Deputy Chair of the Presidium of the National Academy of Sciences of Belarus  Minsk, Republic of Belarus	<b>RESULTS OF THE UNION STATE PROGRAMME  “DNA IDENTIFICATION” IN BELARUS.  PROSPECTS FOR USE IN FORENSICS AND  PUBLIC HEALTH</b>
<b>10:00-10:20</b>	<b>N.A. Kolchanov</b>  D.Sc. in Biology, Academician of the Russian Academy of Sciences  Vice President of Vavilov Society of Geneticists and Breeders	Scientific Supervisor  Federal State Budgetary Scientific Institution “Federal Research Center Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences”	<b>BIG GENETIC DATA, BIOINFORMATICS AND  COMPUTATIONAL BIOLOGY</b>

10:25-10:45	<b>V.L. Krasilnikova</b> MDS, Professor	Professor  Department of Ophthalmology, Institute for Advanced Training and Retraining of Healthcare Personnel, Belarusian State Medical University, Chief External Pediatric Ophthalmologist, Ministry of Health of the Republic of Belarus	EXPERIENCE IN OBSERVING AN OPHTHALMOLOGICAL PATIENT AFTER GENE SUBSTITUTION THERAPY
10:55-11:15	<b>E.I. Kolomiets</b> D.Sc. in Biology, Academician of the NAS of Belarus	Director  State Research and Production Association "Chemical Synthesis and Biotechnology"	MOLECULAR-GENETIC AND MICROBIOLOGICAL BASIS FOR BIOTECHNOLOGY DEVELOPMENT
11:20-11:40	<b>M.E. Mikhailova</b> PhD (Biology), Associate Professor   <b>A.A. Sermyagin</b> PhD (Agriculture)	Head of the Laboratory of Animal Genetics  Institute of Genetics and Cytology, NAS of Belarus  Director  All-Russian Research Institute of Genetics and Breeding of Agricultural Animals, Branch of the Federal State Budgetary Scientific Institution	CHARACTERISTICS OF THE GENE POOL OF RED CATTLE BREEDS IN RUSSIA AND BELARUS: FIRST RESULTS

		<p>“Federal Research Center for Animal Husbandry – All-Russian Institute of Animal Husbandry named after Academician L.K. Ernst”,</p> <p>Podolsk, Russian Federation</p>	
11:45-12:05	<p><b>I.O. Stoma</b></p> <p>MDS, Professor</p>	<p>Rector</p> <p>Educational Institution “Gomel State Medical University”</p>	CHARACTERISTICS OF MOLECULAR GENETIC MARKERS OF NEURODEGENERATIVE DISEASES
12:15-12:35	<p><b>O.S. Glotov</b></p> <p>D.Sc. in Biology, Professor</p>	<p>Head of the Moscow Genome Center, State Budgetary Healthcare Institution “Moscow Scientific and Practical Center for Laboratory Research of the Moscow Department of Healthcare”; Head of the Department of Experimental Medical Virology, Molecular Genetics and Biobanking, Federal State Budgetary Institution “Children's Scientific and Clinical Center for Infectious Diseases” of the Federal Medical and Biological</p>	GENETIC TECHNOLOGIES FOR THE MEGAPOLIS

		Agency of Russia; Leading Research Scientist of the Department of Genomic Medicine named after V.S. Baranov, Federal State Budgetary Scientific Institution “Research Institute of Obstetrics and Gynecology and Reproductive Medicine named after D.O. Ott”, Member of the Expert Council “E.I. Schwartz Association”	
12:40- 13:00	<b>E.I. Suboch</b>  MDS, Associate Professor  <b>S.A. Krasny</b>  MDS, Professor, Academician of the NAS of Belarus	Head of the Oncology Department (Genetics)   N.N. Alexandrov Republican Center of Oncology and Medical Radiology,  Minsk, Republic of Belarus	TOPICAL ISSUES OF MOLECULAR GENETIC DIAGNOSTICS OF ONCOLOGICAL DISEASES
13:00-14:00 Lunch break			



## Section Sessions

**WEDNESDAY, November 19, 2025**

**Renaissance Minsk Hotel Halls, 1E Dzerzhinsky Ave., Minsk**

### Section 1. Human Genetics: Personalized Medicine, Pharmacogenetics, Sports

*Section reports: 14:00 – 18:00. Report duration – 10 minutes; questions – 5 minutes*

*Moderators:*

N.I. Ryabokon, D.Sc. (Biology), Associate Professor

E.L. Savonevich, DMSc, Associate Professor

<b>14:00-14:10</b>	<b>A.N. Shchayuk</b>  PhD (Biology), Associate Professor	Leading Research Scientist  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	The role of genetic and epigenetic features in personalizing of non-small cell lung cancer therapy
<b>14:15-14:25</b>	<b>V.V. Erdman</b>  PhD (Biology)	Ufa Federal Research Center of the Russian Academy of Sciences  Ufa, Russia	Expression of genes encoding components of mitochondrial and endoplasmic reticulum contact sites during aging and longevity
<b>14:30-14:40</b>	<b>M.G. Sinyavskaya</b>  PhD (Biology), Associate Professor	Head of the Laboratory of Cytoplasmic Heredity  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	Diagnosing Alpha-1 Antitrypsin Deficiency in the Population of Belarus: Possibilities and Prospects

<b>14:45-14:55</b>	<b>G.V. Shpakovsky</b> D.Sc. in Biology	National Research Center “Kurchatov Institute”  Moscow, Russian Federation	Quantitative monitoring of various RNA variants of the POLR2J1-POLR2J4 gene system in Homo sapiens for early detection, diagnosis, and prognosis of many socially significant human diseases
<b>15:00-15:10</b>	<b>N.N. Chakova</b> PhD (Biology), Associate Professor	Leading Research Scientist  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	Characteristics of the common TTR gene variant in Belarusian patients with transthyretin amyloidosis
<b>15:15-15:25</b>	<b>E.L. Savonevich</b> PhD (Medicine), Associate Professor	Educational Institution “Grodno State Medical University”  Minsk, Republic of Belarus	Rationality and validity of using next-generation sequencing in the diagnosis of hereditary ovarian cancer: personal experience
<b>15:30-15:40</b>	<b>N.I. Ryabokon</b> PhD (Biology), Associate Professor	Head of the Laboratory of Molecular Basis for Genome Stability  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	Studying genome stability issues using the DNA comet assay
<b>15:45-15:55</b>	<b>A. Orlova</b>	Medical and Genetic Research Center named after Academician N.P. Bochkov  Moscow, Russia	Rasopathies in the Russian Federation: spectrum of variants and phenotypic manifestations
<b>16:00-16:10</b>	<b>O.A. Kuchur</b>	Information Technologies, Mechanics and Optics University  St. Petersburg, Russian	TRANSCRIPTION FACTORS OF THE MAJOR NEUROBLASTOMA REGULATORY NETWORK AS TARGETED THERAPY TARGETS

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<b>Break</b>			
<i>Moderators:</i>  A.N. Shchayuk, D.Sc. (Biology), Associate Professor  M.V. Shtonda, MDSc			
<b>16:20-16:30</b>	<b>E.V. Guzova</b>	Belarusian State University Minsk, Republic of Belarus	Noncanonical RNA splicing in leukemic and normal immature human blood cells
<b>16:35-16:45</b>	<b>M.D. Amelyanivich</b>	Head of the Laboratory of Human Genetics  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	Molecular genetic aspects of personalized nutritional support during physical activity and adaptation to extreme exertion
<b>16:50-17:00</b>	<b>M.V. Shtonda</b>  MDSc	Head of the Therapy Department, Institute of Advanced Training and Retraining of Healthcare Personnel, Belarusian State Medical University Minsk, Republic of Belarus	Polymorphisms in the ADIPOQ and IRS-1 genes in patients with arterial hypertension and overweight/obesity
<b>17:05-17:15</b>	<b>Yu.B. Velikomolova</b>	Head of the Biobank, Bashkir State Medical University  Ufa, Russia	BIOBANKING AS A BASIS FOR MOLECULAR GENETIC RESEARCH OF ONCOLOGICAL DISEASES
<b>17:20-17:30</b>	<b>S.E. Nagieva</b>	Research Scientist, Genome Editing Laboratory,	EVALUATION OF THE EFFICIENCY OF THE METHOD

		Medical and Genetics Research Center named after Academician N.P. Bochkov  Moscow, Russian Federation	OF SKIPPING EXONS 43-55 OF THE DMD GENE ON A CELL CULTURE OF MYOBLASTS
17:35-17:45	<b>A.A. Petintseva</b>	Ufa Federal Research Center of the Russian Academy of Sciences  Ufa, Russia	Contribution of autophagy regulatory genes and associated signaling pathways to longevity and survival
17:50-18:00	<b>M.V. Smolnikova</b>  PhD (Biology)  (online)	Head of the Molecular Genetic Research Group, Research Institute of Medical Problems of the North, Federal Research Center, Krasnoyarsk Scientific Center, Siberian Branch of the Russian Academy of Sciences  Krasnoyarsk, Russia	Molecular genetic approaches to studying the characteristics of the course of diseases in the population of Eastern Siberia
<b>Section 2. Genetics and Breeding of Agricultural Plants</b> <i>Section reports: 14:00 – 18:00. Report duration – 10 minutes; questions – 5 minutes</i>			
<b>Moderators:</b>  O.Yu. Urbanovich, D.Sc. (Biology), Professor  O.N. Khapilina, PhD in Biology			
14:00-14:10	<b>O.Yu. Urbanovich</b>  D.Sc. in Biology	Institute of Genetics and Cytology, NAS of Belarus	Development of potato plants carrying CRISPR/Cas9-edited genes regulating defense responses to improve

		Scientific and Practical Center of the National Academy of Sciences of Belarus for Potato and Fruit and Vegetable Growing  Minsk, Republic of Belarus	resistance to late blight
14:15- 14:25	<b>G.V. Mozgova</b>  PhD (Biology), Associate Professor	Head of the National Coordination Biosafety Centre  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	Genomic technologies for marker-assisted selection of rapeseed in the Republic of Belarus
14:30- 14:40	<b>I.S. Gordey</b>  PhD (Biology), Associate Professor	Head of the Plant Cytogenomics Laboratory  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	The influence of Rfp genes on genetic selection traits of winter tetraploid rye
14:45- 14:55	<b>N. Petrash</b>	Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences  Novosibirsk, Russia	Genetic breeding approach to obtaining triticale varieties with increased anthocyanin content in grain
15:00- 15:10	<b>O.A. Orlovskaya</b>  PhD (Biology), Associate Professor	Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	The influence of introgression of foreign genetic material on the main quality indicators of soft wheat grain

15:15-15:25	<b>A.A. Kiseleva</b> PhD (Biology), Associate Professor	Senior Research Scientist, Laboratory of Genetic Foundations of Grain Crop Breeding. Federal Research Center, Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences  Novosibirsk, Russia	IDENTIFICATION OF LOCI AND GENES CONTROLLING HEADING AND MATURITY TIME IN WHEAT UNDER LONG-DAY PHOTOPERIODS AND THEIR EFFECTS ON YIELD-RELATED TRAITS
15:30-15:40	<b>E.V. Lagunovskaya</b> PhD (Biology)	Leading Research Scientist, Laboratory of Applied Genomics  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	KASP genotyping of soft wheat
15:45-15:55	<b>E.S. Skolotneva</b> PhD (Biology)	Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences  Novosibirsk, Russia	Immunomodulatory effect of the biopreparation Novokhizol on soft wheat
16:00-16:10	<b>A.A. Kakimhanova</b> Professor, D.Sc. in Biology	Head of the Laboratory of Biotechnology and Plant Breeding, National Center for Biotechnology Astana, Kazakhstan	CONSERVATION OF ENDEMIC, RARE, AND ENDANGERED PLANTS <i>IN VITRO</i>
	<b>O.N. Mironenko</b>	Director	CREATION OF A HOPS COLLECTION <i>IN VITRO</i> ( <i>HUMULUS LUPULUS</i> L.)

	PhD (Biology)  <b>Online report</b>	Altai Center for Applied Biotechnology  Barnaul, Russian Federation	
<b>Moderators:</b> V.E. Padutov, D.Sc. in Biology, Corresponding Member of NAS of Belarus  V.A. Lemesh, PhD in Biology, Associate Professor			
<b>16:15- 16:25</b>	<b>O.G. Babak</b>  PhD (Biology), Associate Professor	Leading Research Scientist, Laboratory of Ecological Genetics and Biotechnology  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	Genetic basis for the expression of quality traits in the fruits of vegetable nightshade crops
<b>16:30- 16:40</b>	<b>O.N. Khapilina</b>  PhD (Biology)	Head of the Laboratory of Plant Genomics and Bioinformatics, National Center for Biotechnology   Astana, Republic of Kazakhstan	Genetic variability assessment of wild populations of the medicinal plant <i>Paeonia anomala</i> using IPBS markers
<b>16:45- 16:55</b>	<b>L.S. Valieva</b>  PhD (Biology), Associate Professor	Institute of Genetic Resources of the Republic of Azerbaijan	Antiradical activity of dark grain corn

<b>17:00-17:10</b>	<b>T.V. Marakaeva</b> PhD (Agriculture)	Associate Professor Department of Agronomy, Breeding, and Seed Production, Omsk State Agrarian University named after P.A. Stolypin,  Omsk, Russia	Phenotyping and genotyping of lentils by mechanical harvesting suitability traits in the Omsk region
<b>17:15-17:25</b>	<b>V.N. Kipen</b> PhD (Biology)	Leading Research Scientist, Laboratory of Applied Genomics  Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	USING MACHINE LEARNING METHODS (NEURAL NETWORKS) IN PLANT PHENOMICS RESEARCH
<b>17:30-17:40</b>	<b>A.S. Simagina</b>	Russian State Agrarian University – Moscow Timiryazev Agricultural Academy  Moscow, Russia	Identification of candidate genes for resistance to scaly blight in a fiber flax collection
<b>17:45-17:55</b>	<b>T.A. Baanov</b>	Federal State Budgetary Scientific Institution “Federal Scientific Center for Bast Crops”  Russia, Tver	Molecular genetic evaluation of a cannabinoid hemp profile in reproductive dynamics
<b>18:00-18:10</b>	<b>G.V. Shpakovsky</b> D.Sc. in Biology	National Research Center “Kurchatov Institute”  Moscow, Russian	Discovery of the second, most ancient steroid hormonal system in Viridiplantae and prospects for its use in plant growing



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**THURSDAY, November 20, 2025**

**Renaissance Minsk Hotel Halls, 1E Dzerzhinsky Ave., Minsk**

**Section 3.** Genomic Research in Animal Husbandry. Genetic Resources and Their Conservation.

*Section reports: 09:00 – 13:00. Report duration – 10 minutes; questions – 5 minutes*

Moderators:

M.E. Mikhailova, PhD in Biology, Associate Professor

S.N. Semenov, PhD (Veterinary science)

<b>09:00-09:10</b>	<b>S.N. Semenov</b> PhD (Veterinary Sciences)	Acting Vice-Rector for Science, Head of the Department of Veterinary and Sanitary Expertise, Epizootology, and Parasitology  Voronezh State Agrarian University  Voronezh, Russia	Genotyping as a driver for the development of a modern breeding process in animal husbandry
<b>09:15-09:30</b>	<b>E.S. Artemov</b> PhD (Agriculture)	Head of the Department of General Animal Science, Deputy Head of Science of the Advanced Engineering School “Agrogen”  Voronezh, Russia	Molecular genetic technologies as the basis for the rational use and preservation of the gene pool of domestic cattle breeds

09:35-09:45	<b>E.L. Romanishko</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	Determining hereditary anomalies and genetic polymorphisms in the Holstein cattle of Belarusian breeding using the pikodetect genetic analyzer
09:50-10:00	<b>V.I. Chinarov</b> D.Sc. in Economics	Chief Research Scientist, Federal Research Center for Animal Husbandry named after Academy Member L.K. Ernst  Moscow region, Russia	Current issues related to preserving the cattle gene pool and its breeding in Russia
10:05-10:15	<b>G.N. Singina</b> PhD (Biology)	Head of the Experimental Embryology Laboratory, Federal Research Center for Animal Husbandry named after Academy Member L.K. Ernst  Moscow region, Russia	The presence of follicular-derived exosomes in the oocyte maturation environment improves their quality and ability for embryonic development <i>in vitro</i> .
10:20-10:30	<b>T.E. Deniskova</b> PhD (Biology)	Head of the Small Livestock Genetics and Genomics Group, Federal Research Center for Animal Husbandry – Academician L.K. Ernst All-Russian Research Institute of Animal Husbandry  Moscow Region, Russia	Search for breeding traces in the genome of Russian goats in comparison with foreign breeds
10:35-10:45	<b>V.V. Volkova</b> PhD (Biology)	Senior Research Scientist, DNA Technology Laboratory, Federal Research Center for Animal Husbandry – Academician L.K. Ernst All-Russian Research Institute of Animal Husbandry  Moscow region, Russia	STUDYING THE STRUCTURE OF GEESE POPULATIONS BRED IN RUSSIA

<b>10:50-11:00</b>	<b>A.I. Tsar</b> Research Scientist	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	Genomic technologies for the species and breed identification of fish
<b>11:00-11:20 Break</b>			
Moderators:  E.N. Makeyeva, PhD in Biology, Associate Professor  G.V. Mozgova, PhD in Biology, Associate Professor			
<b>11:20-11:35</b>	<b>E.N. Makeyeva</b> PhD (Biology), Associate Professor	Head of the National Coordination Centre on Access to Genetic Resources and Benefit-Sharing, Institute of Genetics and Cytology, NAS of Belarus  Minsk, Republic of Belarus	Legal regulation of genetic resources management, their study and conservation
<b>11:40-11:55</b>	<b>F.B. Musaev</b> DAgrSc	Federal State Budgetary Scientific Institution “Federal Scientific Center for Vegetable Growing”	MICROFOCUS X-RAY IMAGING IN THE CONSERVATION OF PLANT GENETIC RESOURCES
<b>12:00-12:15</b>	<b>V.A. Lukanina</b> PhD (Biology)	Federal Research Center for Animal Husbandry – Academician L.K. Ernst Research Center for Animal Husbandry Moscow region, Russia	Genetic resources and their conservation, biosafety
<b>12:20-12:35</b>	<b>A.V. Dotsev</b> PhD (Biology)	Head of the Laboratory of Functional and Evolutionary Genomics of Animals, Federal Research Center for Animal Husbandry named after Academy Member L.K. Ernst	Molecular genetic analysis of the population structure and biodiversity of the snow (bighorn) sheep ( <i>ovis nivicola</i> )

		Moscow region, Russian Federation	
12:40-12:55	<b>V.R. Kharzinova</b>  PhD (Biology)	Head of the Laboratory of DNA Technologies in Animal Husbandry, Federal Research Center for Animal Husbandry named after Academy Member L.K. Ernst Moscow region, Russian Federation	Assessing the genetic diversity of reindeer populations ( <i>Rangifer tarandus</i> ): a large-scale screening of myostatin gene polymorphisms
<b>13:00-14:00 Lunch breaks</b>			
<b>Section 4. Metagenomics, Microbiome and Biotechnology. Bioinformatics and Data Analysis.</b> <i>Section reports 09:00 – 13:00</i>			
Moderators:  V.N. Danilenko, D.Sc. in Biology, Professor  E.P. Mikhalev, PhD in Biology, Associate Professor			
09:00-09:10	<b>V.N. Danilenko</b>  D.Sc. in Biology, Professor	Academic Advisor of the Neuromicrobiome Consortium. Head of the Department of Genetic Biotechnology, Federal State Budgetary Scientific Institution “N.I. Vavilov Institute of General Genetics, Russian Academy of Sciences” Moscow, Russian Federation	Neuromicrobiome, genetic technologies, and biotechnology – the path to creating next-generation pharmabiotics
09:15-09:25	<b>O.M. Malysheva</b> Research Scientist	Republican Scientific and Practical Center “Mother and Child”, Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	Cerebral status disorders: the gut-brain axis
09:30-09:40	<b>S.S. Kozhakhmetov</b>	Leading Research Scientist,	Evolution of intestinal microbiota in the mother-child system:

	PhD (Biology)	Microbiome Laboratory of the National Laboratory, Astana Center for Life Sciences, Nazarbayev University Astana, Kazakhstan	from birth to one year of life
<b>09:45-09:55</b>	<b>E.P. Mikhaleiko</b> PhD (Biology), Associate Professor	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	Study of the species composition of the intestinal microbiome of participants of the Belarusian Antarctic expedition in dynamics
<b>10:00-10:10</b>	<b>M.A. Sikolenko</b>	Institute of Microbiology, NAS of Belarus Minsk, Republic of Belarus	Comparison of the effectiveness of methods for correcting the results of metataxonomic experiments
<b>10:15-10:25</b>	<b>D.A. Reznikova</b>	N.I. Vavilov Institute of General Genetics of the Russian Academy of Sciences Moscow, Russian Federation	Biochemical, immunomodulatory, and transcriptional biomarkers expressed in a combined LPS-lactacystin model of parkinsonism in Wistar rats
<b>10:30-10:40</b>	<b>V.S. Letvinova</b>	N.I. Vavilov Institute of General Genetics of the Russian Academy of Sciences Moscow, Russian Federation	Controlled fermentation technologies and omics control as tools for improving the efficiency and quality of the final product in the process of pharmabiotic development
<b>10:45-10:55</b>	<b>S.A. Manabaeva</b> PhD (Biology)	Head of the Plant Genetic Engineering Laboratory, National Center for Biotechnology of Kazakhstan. Astana, Kazakhstan	Identification of stress-induced metabolites in <i>Cistanche deserticola</i> callus cultures: a comprehensive GC-MS/HPLC-MS analysis
<b>11:00-11:20 Break</b>			
<b>Moderators:</b> O.D. Levdansky, PhD in Biology O.M. Malysheva, Research Scientist			
<b>11:20-11:30</b>	<b>O.D. Levdansky</b> PhD (Biology)	Head of Bioinformatics Centre Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	Comparative analysis of software for processing high-throughput sequencing data

11:35-11:45	<b>I.N. Ilyushenok</b>	Belarusian State University Minsk, Republic of Belarus	An integrated R package huGSVcalR for the identification and deep annotation of single nucleotide polymorphism sites in the human genome
11:50-12:00	<b>O.M. Malysheva</b> Research Scientist	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	Whole exome sequencing: from data acquisition to conclusion
12:05-12:10	<b>V.N. Kipen</b> PhD (Biology), Associate Professor	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	A bioinformatic approach to NGS data analysis to select SNPs capable of differentiating biological species
12:15-12:25	<b>Ya.I. Sheiko</b> PhD (Biology)	Leading Research Scientist, Laboratory of Animal Genetics, Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	Development and testing of a neural network system for analyzing cell culture images
12:30-12:40	<b>D.A. Skladnev</b>  D.Sc. in Biology, Professor	Chief Research Scientist, Microorganism Survival Laboratory, Federal Research Center “Biotechnology Fundamentals” of the Russian Academy of Sciences Moscow, Russian Federation	<i>DE NOVO</i> GENERATION OF BIOGENIC METAL NANOPARTICLES AS A CELL METABOLIC ACTIVITY INDICATOR
12:45-12:55	<b>Bolin Chen</b>	School of Computer Science, Northwestern Polytechnical University, Xi'an, China 2 MIIT Key Laboratory of Big Data Storage and Management, Northwestern Polytechnical University, Xi'an. China	TGDNN: Text-Graph Dual-Modal Neural Network for cancer driver gene identification
<b>13:00-14:00 Coffee break</b>			
Closing. Outcomes.			

**Poster Session**

Chair: V.E. Padutov, D.Sc. in Biology, Corresponding Member of the NAS of Belarus

Co-chair: E.V. Guzenko, PhD in Biology, Associate Professor

O.D. Levdansky, PhD in Biology

**Renaissance Minsk Hotel, 1E Dzerzhinsky Ave., Minsk**

1	<b>D.S. Balashko</b>	Belarusian State Association of Livestock Breeding “Belplemzhivobedinenie” Minsk, Republic of Belarus	GENETIC STRUCTURE OF THE HOLSTEIN CATTLE POPULATION BELONGING TO THE BELARUSIAN POPULATION
2	<b>T.E. Deniskova</b>	Federal Research Center for Animal Husbandry named after Academician L.K. Ernst Russian Federation	TURKEY ( <i>MELEAGRIS GALLOPAVO</i> ) GENETIC RESOURCES MONITORING IN DYNAMICS
3	<b>V.R. Kharzinova</b>	Federal Research Center for Animal Husbandry named after Academician L.K. Ernst Russian Federation	STUDYING THE GENETIC DIVERSITY AND POPULATION STRUCTURE CHARACTERISTICS OF HUNGARIAN MANGALICA PIGS IN RUSSIA BY WHOLE-GENOME GENOTYPING
4	<b>V.V. Volkova</b>	Federal Research Center for Animal Husbandry named after Academician L.K. Ernst Russian Federation	EXPLORATORY AND APPLIED RESEARCH OF MICROSATELLITE MARKERS FOR THE DEVELOPMENT OF A MULTIPLEX STR PANEL TO CONTROL ORIGIN VALIDATION AND EVALUATION OF THE GENETIC STRUCTURE OF THE DOMESTIC GOOSE ( <i>ANSER ANSER DOMESTICUS</i> )
5	<b>A.S. Abdelmanova</b>	Federal Research Center for Animal Husbandry named after Academician L.K. Ernst Russian Federation	Assessment of the Preservation of Genetic Components of the Progenitor of the Kostroma Breed in Modern Populations
6	<b>S.S. Pogodaeva</b>	Information Technologies, Mechanics and Optics University St. Petersburg, Russian Federation	TARGETED NONO INHIBITION TO SUPPRESS THE ADRENERGIC PHENOTYPE OF NEUROBLASTOMA CELLS
7	<b>I.A. Mednova</b>	Tomsk National Research Medical Center of the Russian Academy of Sciences Russian Federation	ASSOCIATION ANALYSIS OF POLYMORPHIC VARIANTS OF ANTIOXIDANT SYSTEM GENES WITH THE HYPERTENSIVE COMPONENT OF METABOLIC SYNDROME IN PATIENTS WITH SCHIZOPHRENIA

			STUDY OF ASSOCIATIONS OF CATECHOL-O-METHYLTRANSFERASE GENE POLYMORPHISMS AND SUICIDE ATTEMPTS IN SCHIZOPHRENIA
8	<b>G.T. Zhumaliev</b>	Kazakh Research Institute of Agriculture and Plant Growing Republic of Kazakhstan	IDENTIFICATION OF CARRIERS OF GENES FOR RESISTANCE TO COMMON BUNT AND RUST USING MOLECULAR MARKERS IN WHEAT BREEDING LINES
9	<b>N.A. Churbakova</b>	Federal Research Center for Animal Husbandry named after Academician L.K. Ernst Russian Federation	DYNAMICS OF THE GENETIC ARCHITECTURE OF THE LARGE WHITE PIG BREED IN HISTORICAL RETROSPECTIVE: WHOLE-GENOME ANALYSIS OF MUSEUM AND PRESENT-DAY POPULATIONS
10	<b>I.N. Leonova</b>	Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences	GRAIN QUALITY OF SOFT ( <i>T. aestivum</i> L.) AND DURUM ( <i>T. durum</i> DESF.) WHEAT: COMPARATIVE ANALYSIS OF GENETIC LOCI
11	<b>N.A. Nebesikhina</b>	Azov-Black Sea Branch of the Russian State Research Center of Fisheries and Oceanography (VNIRO), Russian Federal Research Institute of Fisheries and Oceanography	ASSESSMENT OF THE GENE POOL OF STURGEON FISH SPECIES CONTAINED IN THE RMS FEDERAL STATE BUDGETARY INSTITUTION “GLAVRYBVOD” “DONSKOY STURGEON FACTORY”
12	<b>M.G. Udina</b>	N.I. Vavilov Institute of General Genetics of the Russian Academy of Sciences	GRAIN QUALITY OF SOFT ( <i>T. aestivum</i> L.) AND DURUM ( <i>T. durum</i> DESF.) WHEAT: COMPARATIVE ANALYSIS OF GENETIC LOCI
13	<b>K.V. Chernov</b>	Information Technologies, Mechanics and Optics University St. Petersburg, Russian Federation	COPPER-BASED CHEMODYNAMICAL THERAPY FOR MYELOABLATION IN IMMUNOCOMPROMISED PATIENTS
14	<b>Ya.S. Kolmakova</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	GENOTYPING OF A COLLECTION OF SOYBEAN VARIETIES BY THE E1 PHOTOPERIODISM GENE
15	<b>A.S. Alomova</b>	Southern Federal University, D. I. Ivanovsky Academy of Biology and Biotechnology; Azov-Black Sea Branch of the Russian State Research Center of	TEMPORAL DYNAMICS OF THE GENETIC VARIABILITY OF RUSSIAN STURGEON ( <i>ACIPENSER GUELLENSTAEDTII</i> ) IN THE SEA OF AZOV



		Fisheries and Oceanography (VNIRO), Russian Federal Research Institute of Fisheries and Oceanography	
16	<b>V.M. Veremeichik</b>	State Forensic Examination Committee of the Republic of Belarus	CHALLENGES IN NEWBORNE CORPSE IDENTIFICATION: THE COMPREHENSIVE INTERACTION OF FORENSIC GENETIC EXAMINATION AND DNA DATA RECORDING
17	<b>A.K. Dairov</b>	Stem Cell Laboratory, National Center for Biotechnology; Department of General Biology and Genomics, L.N. Gumilyov Eurasian National University Astana, Republic of Kazakhstan	THERAPEUTIC POTENTIAL OF CYTOKINE-PRECONDITIONED MESENCHYMAL STEM CELLS AND THEIR EXOSOMES ON A MODEL OF MOUSE PSORIASIS
18	<b>A.M. Dzhenisbaeva</b>	Kazakh Research Institute of Agriculture and Plant Growing Republic of Kazakhstan	CHICKPEA (CICER ARIETINUM L.) HYBRIDIZATION: ENHANCING EFFICIENCY AND REFINING TECHNIQUES USING MORPHOLOGICAL AND MOLECULAR MARKERS
19	<b>V.A. Sidorovich</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	ASSOCIATED ANALYSIS OF TWO POLYMORPHIC LOCI (rs743923 and rs116200048) OF THE ANION TRANSPORTER 1 GENE (SLC26A8) WITH ASTENOSOPERMIA (competition)
20	<b>E.V. Drozd</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	ANALYSIS OF ANT1-LIKE GENE POLYMORPHISM TO STUDY GENETIC REGULATION OF ANTHOCYANIN ACCUMULATION IN TOMATO FRUITS (competition)
21	<b>I.N. Andreeva</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	EVALUATION OF POLYMORPHIC VARIANTS OF GENES INVOLVED IN LIPID METABOLISM IN ELDERLY PEOPLE (competition)
22	<b>V.D. Shcherbakova</b>	Russian Federal Research Institute Of Fisheries and Oceanography Russian Federation	GENETIC DIVERSITY AND CONSERVATION CHALLENGES OF THE NATURAL POPULATION OF BELUGA (competition)
23	O. P. Shatarnov	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	CREATION OF A NEW OILSEED SUNFLOWER GENE POOL FOR HYBRID BREEDING IN BELARUS

24	<b>A.P. Ermishin O.N. Gukasyan V.M. Zharich</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	NEW METHODS OF INVOLVING THE VALUABLE GENE POOL OF WILD POTATO SPECIES IN BREEDING
25	<b>A.P. Ermishin E.V. Voronkova O.N. Gukasyan V.M. Zharich</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	SPECIFICS OF ESTABLISHING DIPLOID INBRED POTATO LINES TO OBTAIN HETEROSIC HYBRIDS
26	<b>E.V. Voronkova A.P. Ermishin</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	DIPLOID POTATO COLLECTION OF THE INSTITUTE OF GENETICS AND CYTOLOGY OF THE NAS OF BELARUS AND ITS USE IN BREEDING
27	<b>A.S. Ageeva A.P. Ermishin E.V. Voronkova A.V. Levy</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	SCHEMES FOR INVOLVING THE WILD ALLOTETRAPLOID POTATO SPECIES <i>S.STOLONIFERUM</i> SCHTDL. IN BREEDING, MAKING IT POSSIBLE TO INCREASE THE PROBABILITY OF INTROGRESSION OF SUBGENOME GENETIC MATERIAL (competition)
28	<b>A.N. Zainchkovskaya</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	Study of the expression level of individual CBF genes in winter wheat varieties under simulated cold stress conditions (competition)
29	<b>V.E. Shimko</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	STUDY OF TETRAPLOID AND DIPLOID FORMS OF WINTER RYE ( <i>SECALE CEREALE</i> L.) BY FERTILITY RESTORATION GENES
30	<b>N.K. Zaitsev</b>	Institute of Genetics and Cytology, NAS of Belarus Minsk, Republic of Belarus	EVALUATION OF SOYBEAN VARIETIES BY A COMPLEX OF USEFUL ECONOMIC TRAITS UNDER CONDITIONS OF BELARUS
31	<b>A.S. Mikhailova</b>	N. I. Vavilov All-Russian Institute of Plant Genetic Resources	EXPRESSION ANALYSIS OF KEY PIGMENT BIOSYNTHESIS GENES OF FLAVONOID AND PHENYLPROPANOID PATHWAYS IN NATURALLY DYED COTTON FIBER
32	<b>M.Yu. Biryukov</b>	Federal State Budgetary Scientific Institution "Federal Research Center Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences" Novosibirsk, Russian Federation	Identification of endogenous viruses in genome assemblies of Myotis bats using tertiary structure profiling of protein domains

33	<b>V.N. Kelbin</b>	Federal State Budgetary Scientific Institution “Federal Research Center Institute of Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences” Novosibirsk, Russian Federation	MASRUSPLANTS: a web resource of DNA markers for marker- assisted selection of rust resistance genes in cereal crops
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