



**17-21 April 2017,
Zvenigorod Biological Station**

PROGRAMME
of the International Scientific Conference
«Genetics of Population: Progress and Perspectives»
commemorating the 80th birthday of Academician Yuri P. Altukhov (1936–2006)
and the 45th Anniversary of the Laboratory of Population Genetics



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Russian Academy of Sciences (RAS)
Vavilov Institute of General Genetics RAS (VIGG)
Scientific Council for Genetics and Breeding RAS
Vavilov Society of Geneticists and Breeders
Department of Genetics, Faculty of Biology, Lomonosov Moscow State University (MSU)
Scientific Training Center of VIGG and Department of Genetics of Faculty of Biology MSU
S.N. Skadovsky Zvenigorod Biological Station MSU

Scientific Committee:

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Krutovsky Konstantin V., Prof. (Georg-August University of Göttingen, Germany; VIGG, Co-Chair)
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Inge-Vechtomov Sergey G., Academician of RAS (SPb Branch of VIGG)
Zhivotovsky Lev A., DSc, Prof. (VIGG)
Kartavtsev Yuri F., DSc, Prof. (Nat. Scientific Centre of Marine Biology, Far East Branch RAS)
Korzun Leonid P., DSc, Prof. (Faculty of Biology, MSU)
Kurbatova Olga L., DSc (VIGG)
Radchenko Olga A., DSc (Institute of the biological problems of the North, Far East Branch RAS)
Salmenkova Elena A., PhD (VIGG)

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Shestakov Sergey V., Academician of RAS (VIGG)
Yankovsky Nikolay K., Academician of RAS (VIGG)

Organizing Committee:

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Belokon Maryana M., PhD
Gordeeva Natalia V., PhD
Gracheva Alesya S., PhD
Mudrik Elena A., PhD
Talala Maya S., PhD student
Shatokhina Anna V., PhD
(All from Laboratory of Population Genetics, VIGG).

Secretariat:

Mudrik Elena A., PhD
Belokon Maryana M., PhD

17 April, Monday

8:00 – 9:00 – Breakfast

9:00 – 10:15 – Registration of the participants

Conference opening, welcome speeches	
10:15 - 10:25	Academician RAS Yankovsky Nikolay K. (Scientific Leader VIGG RAS)
10:25 - 10:35	Academician Inge-Vechtomov Sergey G. (Director SPb Branch VIGG RAS)
10:35 - 10:45	Kudryavtsev Alexandr M. (Acting Director VIGG RAS)
10:45 - 10:55	Prof. Aslanyan Marlen M. (Department of Genetics, Biological Faculty MSU)
10:55 - 11:00	Gavrilov Valery M. (Director S.N. Skadovsky Biological Station MSU)

Plenary session Chairpersons: Academician RAS Sergey G. Inge-Vechtomov , Alexandr M. Kudryavtsev		
11:00 - 11:30	Politov D.V. (Head of Yu.P. Altukhov Lab. Population Genetics VIGG RAS)	Yuri.P. Altukhov and his scientific heritage
11:30 - 12:00	Salmenkova E.A. (VIGG RAS, Moscow)	Yuri.P. Altukhov and the organization of the Laboratory of Population Genetics of Vavilov Institute of General Genetics RAS
12:00 - 12:20	Academician Sergey G. Inge-Vechtomov (SPb Branch Vavilov Institute of General Genetics RAS, Saint-Petersberg, Russia, Dep. of Genetics and Biotechnology SPBSU, St. Petersburg, Russia), Иовлева О.В., Галкин А.П.	Yu.P. Altukhov and Sankt-Petersburg Branch of Vavilov Institute of General Genetics
12:20 - 12:35	Voronetsky V.I. (Biological Faculty MSU)	The Homeland of Yu.P. Altukhov
12:35 - 13:00	Free speeches	

13:00 – 14:00 – Lunch

Plenary session Chairperson: Politov D.V.		
14:00 - 14:25	Prof. Krutovsky K.V. (Georg-August University of Göttingen, VIGG RAS, Siberian Federal University)	Monomorphism, heterozygosity and evolution: Yu. P. Altukhov's works in the light of the modern genome-wide data
14:25 - 14:50	Prof. Zhivotovsky L.A. (VIGG RAS, Moscow)	Population structure of species: Eco-geographic units and management units
14:50 - 15:15	Prof. Dubrova Y.E. (University of Leicester, UK)	Radiation-induced mutation in the mouse germline: A genome-wide perspective
15:15 - 15:40	Abramson N.I. (Zoological Institute RAS, Saint-Petersburg), Petrova T.V.	"What's in a name": museum collections in the studies on population genetics "
15:40 - 16:05	Prof. Yanbaev Y.A. (Bashkirian State University, Ufa)	On the ten-year experience of cooperation between Russia and Germany in the field of populations genetics of forest tree species

16:05 – 16:30 – Coffee break

Plenary session Chairpersons: Bannikova A.A., Salmenkova E.A.		
16:30 - 16:55	Bannikova A.A. (Lomonosov Moscow State University, Moscow)	An empirical study of species boundaries in small mammals
16:55 - 17:20	Kholodova M.V. (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow), Baranova A.I.	Phylogeography and genetic diversity of ungulates of forest and open landscapes
17:20 - 17:45	Salmenkova E.A. (VIGG RAS, Moscow)	Population systems, metapopulations, biocomplexity
17:45 - 18:10	Kurbatova O.L. (VIGG RAS, Moscow)	Genetically-significant parameters of migration in megalopolises
18:10 - 18:35	Prof. RAS Balanovsky O.P. (VIGG RAS, Moscow), Balanovskaya E.V.	Gene geography of North Eurasian populations: full genome, full exome, and full Y-chromosome sequencing
18:35 - 19:00	Semerikov V.L. (Institute of Plant and Animal Ecology, Ural Branch of the RAS, Ekaterinburg), Semerikova S.A., Putintseva Yu.A., Oreshkova N.V., Krutovsky K.V.	Phylogenography of Scots pine in Siberia and Eastern Europe based on the variation of mitochondrial DNA

19:00 – 20:00 – Dinner

18 April, Tuesday

8:00 – 9:00 – Breakfast

Plenary session Chairperson: Prof. Krutovsky K.V.		
9:00 - 9:25	Politov D.V. (VIGG RAS, Moscow), Belokon M.M., Belokon Yu.S.	Adaptive molecular variation and population genetic structure in conifers
9:25 - 9:50	Prof. Kucher A.N. (Research Institute of Medical Genetics, Tomsk NRMC, Tomsk)	Population genetics as a basis for studying the genetics of complex diseases
9:50 - 10:15	Prof. Stegny V.N. (Tomsk State University, Tomsk)	Speciation. Epigenetic aspects
10:15 - 10:35	Sullivan Alexis (Umeå University, Sweden), Fagernäs Z., Zhao W., Meng J., Polyakova T.A., Shatokhina A.V., Shilkina E.A., Cherosov M.M., Zakharov E.S., Krutovsky K.V., Mudrik E.A., Politov D.V., Wang X-R.	Genomic insights on migration and hybridization in the Norway-Siberian spruce complex
10:35 - 10:55	Gordeeva N.V. (VIGG RAS, Moscow), Salmenkova E.A.	The problem of population structure of pink salmon, <i>Oncorhynchus gorbuscha</i>

10:55 – 11:20 – Coffee break

Plenary session Chairperson: Prof. Dubrova Y.E.		
11:20 - 11:40	Granlund Kaj (Nanomatic, Wolf Working Group, Finland)	Challenges in genetic wolf population management
11:40 - 12:00	Vasil'eva E.D. (Zoological Museum, Moscow), Vasil'ev V.P., Medvedev D.A., Rachek E.I., Amvrosov D.Yu.	The clonal progeny of sturgeon hybrids as an experimental reproduction of the first stages of the reticular speciation
12:00 - 12:20	Vasil'ev V.P. (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow), Medvedev D.A., Rachek E.I., Amvrosov D.Yu.,	Can evolutionary diploid genome of tetraploid sturgeon species maintain the functional properties of the normal diploid genome?

	Mugue N.S., Barmintseva A.E., Vasil'eva E.D.	
12:20 - 12:40	Udina I.G. (VIGG RAS, Moscow), Veremeichik V.M., Kotova S.A., Tsybovsky I.S.	Developing forensic reference database for DNA-identification in the Republic of Belarus
12:40 - 13:00	Truveller K.A. (Trewheller C.A.) (Lomonosov's Moscow State University, Moscow)	Populations – differ by allelic variations. Speciation – through rearrangement of the structural genes expression

13:00 – 14:00 – Lunch

Plenary session Chairperson: Prof. Zhivotovsky L.A.		
14:00 - 14:20	Prof. Škute N. (Daugavpils University, Latvia)	Genetic and epigenetic monitoring of some animal population in Latvia
14:20 - 14:40	Mugue N. (Koltzov Institute of Developmental Biology RAS, Russian Institute for Fishery and Oceanology, Moscow), Terekhanova N.	Young resident three-spined stickleback populations of the White sea basin as a model of speciation – genomic approach
14:40 - 15:00	Levin B.A. (Institute of Biology of Inland Waters, Borok, Yaroslavl reg.), Golubtsov A.S.	Speciation in cyprinids in riverine conditions as exemplified from large African barbs <i>Labeobarbus</i> (Cyprinidae) from the Genale River, East Africa (Ethiopia)
15:00 - 15:20	Goryacheva I.I. (VIGG RAS, Moscow), Blekhman A.V, Andrianov B.V., Romanov D.A., Zakharov I.A.	<i>Spiroplasma</i> - cytoplasmic symbiont of <i>Harmonia axyridis</i> Pallas - diversity and involvement in global invasion
15:20 - 15:40	Stolpovsky Yu.A. (VIGG RAS, Moscow), Svishcheva G.R., Oyun N.Yu., Urum A.V., Tsensursen Ts.	Genetic diversity of the domesticated animal species (<i>Bos taurus</i> and <i>Bos grunnius</i>) of Mongolia and Russia
15:40 - 16:00	Baskevich M. I. (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow), Potapov S.G., Bogdanov A.S., Khlyap L.A., Shvarts E.A.	Role of isolation factor in formation of genetic structure in rodents of Valday Hills
16:00 - 16:20	Petrova T.V. (Zoological Institute RAS, Saint-Petersburg), Tesakov A.S., Bazhenov Yu.A., Abramson N.I.	New data on the distribution of cryptic species <i>Lasiopodomys gregalis</i> and <i>L. raddei</i> in Transbaikalia

16:20 – 16:45 – Coffee break

Plenary session Chairperson: Poliakova T.A.		
16:45 - 17:05	Tarakanov V.V. (West-Siberian Branch of the Sukachev Institute of Forest SB RAS, Novosibirsk State Agricultural University, Novosibirsk), Goroshkevich S.N., Tihonova I.V., Politov D.V., Shuvaev D.N., Zatsepina K.G., Ekart A.K., Belokon M.M., Belokon Yu.S., Kalchenko L.I., Fakhrutdinova V.V., Tkachev A.V., Chankina O.V., Efimov V.M.	Individual heterozygosity and phenotypic variability of <i>Pinus sylvestris</i> L.
17:05 - 17:25	Prof. Zhigunov A.V. (Saint Petersburg State Forest Technical University, Saint Petersburg State University, Saint Petersburg), Lebedeva M.V., Ulianich P.S., Potokina E.K.	Development and ecological trials of two aspen/poplar mapping populations
17:25 - 17:45	von Wuehlisch Georg (Thuener-Institute for Forest Genetics, Germany), Fladung M.	Improving the productivity, resistance, and adaptability in poplar – Development of genetic markers for aspen
17:45 - 18:05	Mudrik E.A. (VIGG RAS, Moscow), Poliakova T.A., Shatokhina A.V., Belokon M.M., Belokon Yu.S., Politov D.V.	On the distribution border between northern European and Siberian <i>nad1</i> haplotypes of mtDNA in <i>Picea abies</i> – <i>P. obovata</i> spruce complex in Western Siberia
18:05 - 18:25	Belokon M.M. (VIGG RAS, Moscow), Belokon Yu.S., Mudrik E.A., Poliakova T.A., Shatokhina A.V., Politov D.V., Krutovsky K.V.	Genetic diversity of Siberian stone pine, <i>Pinus sibirica</i> Du Tour, by microsatellite loci
18:25 - 18:40	Belokon Yu.S. (VIGG RAS, Moscow), Belokon M.M., Zakharov E.S., Efimova A.P., Politov D.V.	Genetic differentiation of Siberian dwarf pine <i>Pinus pumila</i> (Pall.) Regel populations from Yakutia
18:40 - 19:00	Wehenkel A. Christian (Universidad de Durango, México), Waring K., Cushman S., Eckert A., Renteria L.F., Sniezko R., Still C., Whipple A., Wing M.	A holistic approach to genetic conservation in <i>Pinus strobiformis</i>

19:00 – 20:00 – Dinner

Evening lecture		
20:00 – 21:00	Prof. Dubrova Yuri E. (Department of Genetics, University of Leicester, UK)	Epigenetics and inheritance of acquired traits

19 April, Wednesday

8:00 – 9:00 – Breakfast

Plenary session Chairpersons: Prof. Mukha D.V., Muge N.S		
9:00 - 9:20	Prof. Mukha D.V. (VIGG RAS, Moscow)	Evolution and Variation of Multigene Families
9:20 - 9:40	Ilinsky Yu.Yu. (Institute of Cytology and Genetics SB RAS, Novosibirsk), Yudina M.A., Bykov R.A., Suslov V.V.	<i>Wolbachia</i> symbionts in insect populations: horizontal transmission and strain recombination
9:40 - 10:00	Zelenina D.A. (Russian Federal Research Institute of Fisheries and Oceanography, Moscow), Soshnina V.A., Mineeva T.M., Stoklitskaya D.S.	Comparative phylogeography of Pacific salmon (genus <i>Oncorhynchus</i>)
10:00 - 10:20	Shchipanov N.A. (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow), Pavlova S.V.	Genetic processes in chromosomal hybrid zones: a case of the common shrew <i>Sorex araneus</i> , Lypotyphla, Mammalia
10:20 - 10:40	Mudrik E.A. (VIGG RAS, Moscow), Kashentseva T.A., Postelnykh K.A., Ilyashenko E.I., Goroshko O.A., Politov D.V.	Key points of molecular genetic study of cranes in the wild and breeding centers
10:40 - 11:00	Kashtanov S.N. (VIGG RAS, Moscow), Levenkova E.S., Mescherskii I.G., Rozhnov V.V.	The introgression of genes in the sympatric zone of sable <i>Martes zibellina</i> L. and forest marten <i>Martes martes</i> L.

11:00 – 11:25 – Coffee break

Section “Mechanisms of Speciation” Chairperson: Abramson N.I.		
11:25 - 11:40	Rubtsov A.S. (State Darwin museum, Moscow)	Evolutionary relationship between Yellowhammer and Pine Bunting – the case of «species cooperation»
11:40 - 11:55	Spiridonova L.N. (Federal Centre for Biodiversity, FEB RAS, Vladivostok), Valchuk O.P.	A new case of recombination between the nuclear and mitochondrial genomes in the genus <i>Calliope</i> : hypothesis of the origin of <i>Calliope pectoralis</i>

11:55 - 12:10	Potokina E.K. (Saint Petersburg State Forest Technical University, Saint Petersburg State University, Vavilov Institute of Plant Genetic Resources (VIR), Saint Petersburg), Lebedeva M.V., Ulianich P.S., Levkoev E.A., Volkov V.A., Zhigunov A.V.	Heteroplasmy and nuclear copies of mitochondrial genes (NUMTs) in the zone of introgressive hybridization of Norway and Siberian spruce
12:10 - 12:25	Dudnikov A.Ju. (Institute of Cytology and Genetics SB RAS, Novosibirsk)	Polymorphism of <i>Got2</i> sheds light on <i>Aegilops tauschii</i> intraspecies divergence
12:25 - 12:40	Mironova T.A. (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow), Gromov A.R., Lavrenchenko L.A.	Introgression across the Common vole hybrid zone: chromosomes, nuclear and mitochondrial genes
12:40 - 12:55	Balashov D.A. (All-Russian Research Institute of Freshwater Fisheries, Rybnoe, Moscow region), Recoubratsky A.V., Duma L.N., Ivanekha L.N., Duma V.V.	Fertility of triploid hybrids between crucian carp, <i>Carassius gibelio</i> , and common carp, <i>Cyprinus carpio</i>
12:55 - 13:10	Bryntsev V.A. (Mytishchi branch of Bauman Moscow State Technical University, Mytishchi, Moscow region)	Species as the system are changing in time naturally

Section “Genetic processes in plant populations”

Chairperson: Tsarev Anatoly P.

11:25 - 11:40	Prof. Tsarev A.P. (All-Russian Research Institute of Forest Genetics, Breeding and Biotechnology, Voronezh)	The study of intra-population diversity by quantitative assessment methods
11:40 - 11:55	Makeeva V.M. (Earth Science Museum of Moscow State University, Moscow), Smurov A.V., Politov D.V., Belokon M.M., Belokon Y.S., Suslova E.G., Rusanov A.V.	Gene pool state and viability of Norway spruce, <i>Picea abies</i> (L.) Karst., natural populations and planted stands in Moscow Region
11:55 - 12:10	Gabitova A.A. (Bashkirian State Agrarian University, Ufa), Yanbaev R.Y., Degen B., Yanbaev Y.A., Redkina N.N.	Conditions of oak forests in the Southern Urals and results of investigations of microsatellite DNA polymorphism in the pedunculate oak
12:10 - 12:25	Maslov A.A. (Institute of Forest Science RAS, Uspenskoe, Moscow region), Sirin A.A.	<i>Betula pendula</i> and <i>Betula pubescens</i> in wetland biotops: traditional approach and modern DNA analysis
12:25 - 12:40	Petrova E.A. (Institute of Monitoring of Climatic and Ecological Systems SB RAS, Tomsk), Velisevich S.N.	Phenotypic and genotypic structure of Siberian stone pine populations at the northern area limit
12:40 - 12:55	Melnik P.G. (Bauman Moscow State Technical	Population-geographical variation of larch in geographical plantations of the Moscow

	University, Moscow, Institute of Forest Science RAS, Uspenskoe, Moscow region)	Region
12:55 - 13:10	Rumyantsev D.E. (Mytischy Branch of Bauman Moscow State Technological University, Mytischy, Moscow region), Chernyshenko O.V., Sirotova A.A.	Intra- and inter- population principles of radial growth changeability of woody plants

13:10 – 14:10 Lunch

14:30 – 18:30 Bus excursion to the city of Zvenigorod and Savvino-Storozhevsky Monastery

19:00 – 23:00 Conference dinner

20 April, Thursday

8:00 – 9:00 – Breakfast

Section “Genetic processes in animal populations” Chairpersons: Radchenko O.A.		
9:00 - 9:15	Moreva I.N. (A.V. Zhirmunsky Institute of Marine Biology, National Scientific Center of Marine Biology FEB RAS, Vladivostok), Radchenko O.A.	Genetic variability of antlered sculpin <i>Enophrys diceraus</i> (Pallas, 1787) (Cottidae)
9:15 - 9:30	Barabanava L.V. (Saint-Petersburg State University, Saint-Petersburg), Galkina S.A., Mikhailova E.I.	Molecular-cytogenetic study of alien amphipod <i>Gmelinoides fasciatus</i> in different populations
9:30 - 9:45	Pilganchuk O.A. (Kamchatka Research Institute of Fisheries and Oceanography, Petropavlovsk-Kamchatsky), Shpigalskaya N.Yu.	Genetic differentiation of sockeye salmon <i>Oncorhynchus nerka</i> (Walbaum) of the basin of Kamchatka River
9:45 - 10:00	Denisenko A.D. (Kamchatka Research Institute of Fisheries and Oceanography, Petropavlovsk-Kamchatsky), Kositsina A.I., Pilganchuk O.A., Ivanov P.Yu., Puchnin E.V., Shpigalskaya N.Yu.	Genetic characterization of interspecific hybrids between bairdi crab (<i>Chionoecetes bairdi</i>) and snow crab (<i>Chionoecetes opilio</i>)
10:00 - 10:15	Bocharova E.S. (Russian Federal Research Institute of Fisheries and Oceanography, Moscow)	Population genetic structure of viviparous sea anemones
10:15 - 10:30	Savenkov V.V. (Kamchatka Research Institute of Fisheries and Oceanography, Petropavlovsk-Kamchatsky), Pilganchuk O.A., Shpigalskaya N.Yu., Denisenko A.D.	Differentiation of walleye pollock of the Okhotsk Sea at microsatellite loci
10:30 - 10:45	Solodovnik D.A. (Far Eastern Federal University, Vladivostok), Tatonova Y.V.	Coevolution markers of <i>Clonorchis sinensis</i> (Trematoda: Opisthorchiidae) and its hosts
10:45 - 11:00	Orlova S.Yu. (Russian Federal Research Institute of Fisheries and Oceanography, Moscow), Shcepotov D.M., Volkov	Biogeographic history of fishes of Anoplopomatidae family based on the results of mtDNA analysis

	A.A., Teterina A.A., Smirnova M.A., Baitaliuk A.A., Orlov A.M.	
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Section “Genetic processes in plant populations”		
Chairpersons: Poliakova T.A., Shatokhina A.V.		
9:00 - 9:15	Lyalina E.V. (VIGG RAS, Moscow), Boldyrev S.V., Pomortsev A.A.	Could the population of wild barley <i>Hordeum spontaneum</i> C. Koch from Southeastern Turkey be the progenitor of cultivated barley <i>Hordeum vulgare</i> L.?
9:15 - 9:30	Tsvetkova N.V. ¹ (Saint Petersburg Branch of the Vavilov Institute of General Genetics RAS, 2Saint Petersburg State University, Saint Petersburg), Tikhenko N.D., Voylokov A.V.	Analysis of intra-population variability in rye varieties
9:30 - 9:45	Prof. Troshin L.P. (Kuban State Agrarian University, Krasnodar), Zviagin A.S., Milovanov A.V.	Study of clone genetic diversity of 14 clones of seven grapevine varieties using ISSR, IRAP and iPBS markers
9:45 - 10:00	Gorislavets S.M. (All-Russian National Research Institute of Viticulture and Winemaking “Magarach” RAS, Yalta, Republic of Crimea), Volkov Y.A., Kolosova A.A., Volodin V.A., Vinogradova S.V., Kamionskaya A.M., Risovannaya V. I.	Identification of wild growing Crimean vine forms and their varietal characteristics based on SSR-PCR analysis
10:00 - 10:15	Karpechenko N.A. (Center of Forest Health of Voronezh region, Voronezh), Poliakova T.A., Karpechenko I.Y.	Genetic variability and differentiation of populations of <i>Quercus robur</i> in the European part of Russia
10:15 - 10:30	Ilynov A.A. (Forest Research Institute, Karelian Research Centre RAS, Petrozavodsk PAH), Raevsky B.V.	Assessment of genetic diversity levels in <i>Pinus sylvestris</i> L. plus stands and grafted seed orchard in Karelia
10:30 - 10:45	Yakovlev Igor (Norwegian Institute of Bioeconomy Research)	Genome-wide transcriptome and miRNA integrative analysis to elucidate molecular pathways of epigenetic memory formation in somatic embryos of Norway spruce
10:45 - 11:00	Kamalova I.I. (All-Russian Research Institute of Forest Genetics, Breeding and Biotechnology, Voronezh), Vnukova N.I., Serdyukova A.P.	Features of the genetic structure of embryo pools in crops of Scots pine trees (<i>Pinus sylvestris</i> L.) of different drought resistance

11:00 – 11:25 – Coffee break

Section “Genetic processes in animal populations” Chairpersons: Stakheev V.V., Sorokin P.A.		
11:25 - 11:40	Sorokin P.A. (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow), Naidenko S.V., Kiriliuk V.E., Pavlova E.V., Barashkova A.N..	Genetic diversity of Pallas’ cat (<i>Otocolobus manul</i>) in Russia
11:40 - 11:55	Somova M.N. (VIGG RAS, Moscow), Kashtanov S.N., Svishcheva G.R., Meshchersky I.G., Rozhnov V.V.	Genogeography and features of the taxonomic structure of the sable (<i>Martes zibellina</i> L.)
11:55 - 12:10	Stakheev V.V. (Institute of Arid Zones of the SSC RAS, Rostov-on-Don), Bogdanov A.S., Malikov V.G., Stradomsky B.V., Darvish J.	Genetic differentiation of the yellow-bellied mouse <i>Sylvaemus witherbyi</i> populations: the results of the mitochondrial control region analysis
12:10 - 12:25	Talala M.S. (VIGG RAS, Moscow), Bondarev A.Ya., Zakharov E.S., Pavlov P.M., Plis K., Poyarkov A.D., Jędrzejewska B., Politov D.V.	Genetic differentiation of wolf (<i>Canis lupus</i> L.) populations in Siberia by microsatellite loci and mtDNA
12:25 - 12:40	Koptev V.V. (Yaroslavl Scientific Research Institute of Livestock And Fodder Production, 2Yaroslavl-State Agricultural Academy, Yaroslavl), Kalashnikov A.E., Kalashnikova L.A.	Variability of microsatellite loci in East-European shepherd
12:40 - 12:55	Salomashkina V.V. (A.N. Severtsov Institute of Ecology and Evolution, RAS, Moscow), Kholodova M.V.	Eurasian brown bear genetic structure and diversity based on the microsatellite loci polymorphism analysis
12:55 - 13:10	Baskevich M.I. (A.N. Severtsov Institute of Ecology and Evolution, RAS, Moscow), Mironova T.A., Cherepanova E.V., Sapelnikov S.F., Krivonogov D.A.	Chromosomal researches of geography and dynamics of population-genetic structure of <i>Microtus arvalis</i> sensu lato (Rodentia, Arvicolinae) at the territory of Eastern Europe

Section “Genetics of Human Populations” Chairperson: Kurbatova O.L.		
11:25 - 11:40	Gracheva A.S. (VIGG RAS, Moscow), Pobedonostseva E.Yu., Kurbatova O.L.	Factors of subdivision of an urban population
11:40 - 11:55	Rychkov S.Yu. (VIGG RAS, Moscow), Batieva E.F., Kullanda S.V., Kovalevskaya V.B., Grosheva A.N., Morozova I.Yu.	The genetic diversity of settled population of Cis-Azov region of the Scythian and Sarmatian time
11:55 - 12:10	Kozlov A.I. (Anuchin Research Institute and Museum of Anthropology, Moscow State University, Moscow, Perm State Humanitarian-Pedagogical University, Perm), Vershubskaya G.G.	VDR and LCT genes as bone mineral metabolism determinants in various ecological circumstances
12:10 - 12:25	Lazebny O.E. (Koltzov Institute of Developmental Biology RAS, Moscow), Butovskaya P.R., Uchaeva V.S., Udina I.G., Butovskaya M.L.	Polymorphism of the MTHFR gene in human populations
12:25 - 12:40	Babushkina N.P. (Research Institute of Medical Genetics, Tomsk National Research Medical Center RAS, Tomsk), Kucher A.N., Bragina E.Yu., Garaeva A.F., Goncharova I.A., Tcitrikov D.Yu., Gomboeva D.E., Rudko A.A., Freidin M.B.	The prevalence of genetic variants associated with tuberculosis in populations of various ethnic origin and geographical location
12:40 - 12:55	Bocharova A.V. (Research Institute of Medical Genetics, Tomsk National Research Medical Center RAS, Tomsk), Marusin A.V., Stepanov V.A., Fedorenko O.U., Semke A.V., Ivanova S.A.	Association study of schizophrenia susceptibility genetic markers in the Russian population of the Siberian region
12:55 - 13:10	Savchenko Ya.A. (The Federal Research Center of Coal and Coal Chemistry SB RAS, Kemerovo), Minina V.I., Bakanova M.L., Ryzhkova A.V., Soboleva O.A.	Intergenic interaction in the formation of chromosomal disorders in the Russian population of Western Siberia in contact with the mutagen production environment coal fired power station

13:10 – 14:10 – Lunch

Section “Genetic processes in animal populations”

Chairperson: Kholodova M.V.

14:10 - 14:25	Deniskova T.E. (L.K. Ernst Research Institute of Animal Husbandry, Dubrovitzy, Moscow region), Zinovieva N.A., Sermyagin A.A., Dotsev A.V. Wimmers K., Reyer H., Brem G.	A study of the contemporary allele pool of livestock using whole-genome analysis: Russian native cattle breeds
14:25 - 14:40	Lazebnaya I.V. (VIGG RAS, Moscow), Lazebny O.E.	Frequency distribution of the <i>B</i> -allele of the κ -casein gene in representatives of <i>Bos taurus</i> as a possible correlated response to selection for increased milk yield
14:40 - 14:55	Tsybovsky I.S. (Scientific and Practical Centre of the State Committee of Forensic Examination, Minsk), Kotova S.A., Rybakova V.I., Rabcava A.A., Nedzvedskaya D.E., Spivak E.A..	Molecular genetic identification of taxa of different levels within the order <i>Artiodactyla</i> based on traces from poaching crime scenes
14:55 - 15:10	Dotsev A.V. (L.K. Ernst Research Institute of Animal Husbandry, Dubrovitzy, Moscow region), Deniskova T.E., Okhlopkov I.M., Wimmers K., Reyer H., Brem G., Zinovieva N.A.	The usage of single nucleotide polymorphisms in characterization and differentiation of wild species of genus <i>Ovis</i>
15:10 - 15:25	Kashinina N.V. (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow), Baranova A.I., Kolomeytsev S.G., Kulikov V.V. ² , Kholodova M.V.	Genetic analysis of Roe Deer from the southern part of Russia, on the basis of mtDNA polymorphism (<i>cyt b</i>) and microsatellite loci
15:25 - 15:40	Kipen V.N. (Scientific and Practical Centre of the State Committee of Forensic Expertises, Minsk), Tsybovsky I.S., Melnov S.B.	Bioinformatics algorithms to analyze genetic data of next-generation sequencing (NGS technology) to search for polymorphic variants (SNP) of practical importance for assessment of genetic diversity of wild boar in Belarus
15:40 - 15:55	Kharzinova V.R. (L.K. Ernst Research Institute of Animal Husbandry, Dubrovitzy, Moscow region), Solovieva A.D., Deniskova T.E., Kramarenko A.S., Layshev K.A., Okhlopkov I.M., Zinovieva N.A.	Characteristic of allele pool of reindeer (<i>Rangifer tarandus</i> L., 1758) based on microsatellite analysis

Section “Genetic processes in plant populations” Chairpersons: Prof. Tsarev A.P., Belokon M.M.		
14:10 - 14:25	Poliakova T.A. (VIGG RAS, Moscow)	Haplotypes and nucleotide diversity of chloroplast loci in natural populations of the Genus <i>Spiraea</i> L. (Rosaceae Juss.)
14:25 - 14:40	Protopopova M.V. (Siberian Institute of Plant Physiology and Biochemistry SB RAS, Irkutsk), Pavlichenko V.V., Konovalov A.D., Gnutikov A.A., Chepinoga V.V.	Genetic polymorphism and historical dynamics of some relict plant species populations of Baikal Siberia
14:40 - 14:55	Poliakova T.A. (VIGG RAS, Moscow), Efimova A.P., Shatokhina A.V.	ITS-region nucleotide polymorphism of <i>Salix</i> species from Yakutia
14:55 - 15:10	Evtimov Ivan Todorov (Лесотехническият университет, София, България), Peter Zhelev, Velichko Gagov, Fritz Bergmann	Level of genetic diversity in the Bulgarian populations of Silver Fir (<i>Abies alba</i> Mill.)
15:10 - 15:25	Bailón-Soto Claudia Edith (Universidad de Durango, México), Heinze B., Wohlmuth A., Mariscal-Lucero S.R., Reyes-Martínez A., Wehenkel C.A.	Microsatellite analysis reveals the conspicuous population structure of the endemic <i>Picea chihuahuana</i> Martinez
15:25 - 15:40	Chizhik V.K. (Moscow State Regional University, Moscow, Russia), Martynov V.V.	The study of the primary structure polymorphism of virulence gene <i>Avr2</i> in the population of <i>Phytophthora infestans</i> from the Moscow region
15:40 - 15:55	Golikov A.M., Belokon Yu.S., Belokon M.M., Politov D.V. (VIGG RAS, Moscow)	Dissymmetric and genotypic heterogeneity in Norway spruce <i>Picea abies</i> (L.) H. Karst plus trees in different forest types

15:55 – 16:20 – Coffee break

Poster session Chairperson: Prof. Škute N.		
16:20 – 18:55 (including oral presentations of posters 16:20 – 17:20)	Oreha Jelena, Natalja Škute (Daugavpils University, Latvia)	The genetic monitoring to understand processes in vendace (<i>Coregonus albula</i> (L.)) populations in three Latvian lakes
	Baranova A.I. (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow), Kholodova M.V., Davydov A.V.	The analysis of the control region of mtDNA of reindeer of the tundra and forest ecotypes
	Barmintseva A.E (Russian Research Institute of Fisheries and Oceanography, Moscow), Muge N.S.	Genetic differentiation wild and farmed Siberian sturgeon <i>Acipenser baerii</i> Brandt, 1869
	Bolshakov V.V. (I.D. Papanin Institute for Biology of Inland Waters RAS, Borok, Yaroslavl reg.)	Chromosomal polymorphism in <i>Chironomus plumosus</i> from Rybinsk reservoir
	Kipen V.N. (Scientific and Practical Centre of the State Committee of Forensic Expertises, Minsk, Belarus), Rabtsava A.A., Kotova S.A., Zhurina N.V., Gandzha A.I., Tsybovsky I.S.	The use of two-locus SNP-systems for differentiation of species in the family of Swine in conducting forensic expert examinations
	Kornilova T.I. (Yakutsk state agricultural Academy, Yakutsk)	Practice-oriented tasks of population genetics for the conservation of natural resources of Russia
	Mineeva T.V. (Russian Federal Research Institute of Fisheries and Oceanography, Moscow), Elnikov A.N., Klovach N.V., Zelenina D.A.	Population genetic structure of sockeye salmon <i>Oncorhynchus nerka</i> (Walbaum) of Apuka River
	Morozova Alexandra, Natalja Škute (Daugavpils University, Latvia)	Genetic characterization of the invasive Zebra mussel (<i>Dreissena polymorpha</i>) in Latvian water bodies
	Ponomareva E.V. (Lomonosov Moscow State University, Biological Faculty, Moscow) Volkov A.A., Ponomareva M.V., Shubina E.A.	Analysis of European grayling (<i>Thymallus thymallus</i> L.) D-loop mtDNA variability of the Russian European North
	Zemlemerova E.D. (Institute of ecology and evolution RAS, Zoological museum, MSU, Moscow), Raspopova A.A., Gritsyshin V.A., Lebedev V.S.	Sudden expansion model: limitations in complex situations
Safronova L.D. A.N. Severtsov Institute of Ecology and Evolution RAS,	Frequency of t-haplotype bearers in the wild populations of home mice, <i>Mus musculus</i> , in the territory of Russia and other countries of Eurasia	

Moscow), Petrosyan V.G., Chekunova A.I.	
Semenova A.V. (Lomonosov Moscow State University, Department of Ichthyology, Moscow), Stroganov A.N.	Microsatellite diversity in Pacific herring <i>Clupea pallasii pallasii</i>
Sergeev A.A. (Russian Federal Research Institute of Fisheries and Oceanography, Moscow), Ponomareva E.V., Kuzishchin K.V.	The diversity analysis of pike perch haplotypes (<i>Sander lucioperca</i>) from the Lower and Upper Volga basins on the basis of mtDNA gene cytochrome b polymorphism
Sokolov V.V. (VIGG RAS, Moscow), Politov D.V.	Differentiation of sympatric species of whitefish of the genus <i>Coregonus</i> from Lake Teletskoye by microsatellite loci
Soshnina V.A. (Russian Federal Research Institute of Fisheries and Oceanography, Moscow), Zelenina D.A., Pavlov S.D.	Genetic diversity of the Commander Islands charrs
Stoklitskaya D. (Russian Federal Research Institute of Fisheries and Oceanography, Moscow), Zelenina D., Markevich G., Mugev N.	The origin and population structure of sympatric forms of residential sockeye salmon (kokanee) in Lake Kronotskoe, Kamchatka peninsula
Khrustaleva A.M. (Russian Federal Research Institute of Fisheries and Oceanography, Moscow)	Genetic structure of sockeye salmon <i>Oncorhynchus nerka</i> of Kamchatka, Chukotka and continental coast of the Sea of Okhotsk inferred from the SNP analysis data
Shalgimbayeva G.M. (Kazakh Research Institute of Fisheries, Alma-Aty, Kazakhstan), Volkov A.A.	Microsatellite variability of the brine shrimp <i>Artemia (Artemia partenogenetica)</i> populations of salinity reservoirs in Kazakhstan
Evtimov Ivan Todorov (Лесотехнически университет, София, България), Aneva I., Zhelev P.	Morphometric and genetic variation in the Balkan endemic <i>Sideritis scardica</i> Grsb
Makarenko E.S. (Russian Institute of Radiology and Agroecology, Obninsk), Volkova P.Yu., Geras'kin S.A.	Evaluation of the genetic diversity in populations of Scots pine growing on radioactively contaminated territories
Yanbaev R.Y. (Bashkir State Agrarian University, Ufa)	ISSR-analysis of polymorphism in the undergrowth of <i>Quercus robur</i> L. on abandoned agricultural lands
Vasiliev Yu.A. (Kubanskii State Medical University of the Health Care Ministry of RF, Krasnodar), Kurbatova O.L., Pobedonostseva E.Yu., Gracheva A.S., Uchaeva V.S., Redko A.N., Udina I.G.	Peculiarities of territorial distribution of congenital clefts of lip and/or palate in Krasnodarskii krai in connection with ecological factors
Dambueva I.K.	Genetic and historical differentiation of the autochthonous populations of Southern

(Institute of General and Experimental Biology SB RAS, Ulan-Ude), Kabilov M.R., Bazarov B.V.	Siberia
Naumova O.Yu. (VIGG RAS, Moscow, University of Houston, TX, USA), Rychkov S.Yu., Odintsova V.V., Zhukova O.V., Grigorenko E.L.	Social Environment and Epigenetic Programming of Early Human Development
Brandler O.V. (Koltzov Institute of Developmental Biology RAS, Moscow), Tukhbatullin A.R., Kapustina S.Yu.,	Estimate of species specificity of <i>Spermophilus major</i> genome according to variability of mitochondrial and nuclear DNA markers
Mugue L.N. (Institute of Developmental Biology RAS, Moscow), Barmintseva A.Ye., Mugue N.S.	Study of reproductive behavior of anadromous and resident forms in the three-spined stickleback of the White Sea
Oleinik A.G. (A.V. Zhirmunsky Institute of Marine Biology, National Scientific Center of Marine Biology FEB RAS, Vladivostok), Skurikhina L.A., Kukhlevsky A.D.	Genetic identification and relationships of two endemic charrs of the genus <i>Salvelinus</i>
Oleinik A.G. (A.V. Zhirmunsky Institute of Marine Biology, National Scientific Center of Marine Biology FEB RAS, Vladivostok), Skurikhina L.A., Kovpak N.E., Kukhlevsky A.D.	Comparative analysis of genetic diversity and demographic history of the Pacific smelt <i>Osmerus dentex</i>
Stepchenkova E.I. (Saint Petersburg branch of Vavilov Institute of General Genetics, Saint Petersburg State University, Saint Petersburg), Lada A.G., Inge-Vechtomov S.G., Pavlov Y.I.	Fraction of hypermutable cells in microbial populations
Shaikevich E.V. (VIGG RAS, Moscow), Fyodorova M.V.	Mating isolation mechanisms in the divergence of the forms of <i>Culex pipiens</i> Linnaeus, 1758 (Diptera, Culicidae)
Shumenko P.G. (FSCEATB FEB RAS, Vladivostok), Tatonova Y.V., Besprozvannykh V.V.	New representatives of genus <i>Metagonimus</i> (Trematoda: Heterophyidae) in the Russian Southern Far East

19:00 – 20:00 – Dinner

Evening lecture	
20:00 – 21:00	Abramson N.I. (Zoological Institute RAS, Saint-Petersburg) Intraspecies categories: taxonomic and nomenclature aspects

21 April, Friday

8:00 – 9:00 – Breakfast

Section “Genetic processes in animal populations” Chairpersons: Goryacheva I.I.		
9:00 - 9:20	Prof. Nikolenko A.G. (Institute of Biochemistry and Genetics USC RAS, Ufa), Kaskinova M.D., Gataullin A.R., Saltykova E.S.	The structure of population system of the European dark bee <i>Apis mellifera mellifera</i> in the Volga-Ural region
9:20 - 9:35	Saltykova E.S. (Institute of biochemistry and genetics of Ufa scientific center of RAS, Ufa), Gataullin A.R., Gaifullina L.R., Poskrjakov A.V., Nikolenko A.G.	Role of vitellogenin gene in the mechanisms of honey bee adaptation to a prolonged wintering
9:35 - 9:50	Oyun N.Yu. (VIGG RAS, Moscow), Zagorskina A.S., Lazebnaya I.V., Mukha D.V.	Population analysis of variability of the patterns of the R2 retrotransposon 5'-truncated copies in the German cockroach <i>Blattella germanica</i>
9:50 - 10:05	Moskaev A.V. (Moscow State Region University, Moscow), Gordeev M.I.	Inversion polymorphisms of malaria mosquitoes populations (Diptera, Culicidae, Anopheles) in different climatic zones
10:05 - 10:20	Bykov R.A. (Institute of Cytology and Genetics SB RAS, Novosibirsk), Yudina M.A., Mazunin I.O., Ilinsky Yu.Yu.	Diversity and distribution of <i>Wolbachia</i> genotypes and mtDNA haplotypes in Palearctic populations of <i>Drosophila melanogaster</i>
10:20 - 10:35	Yudina M.A. (Institute of Cytology and Genetics SB RAS, Novosibirsk State University, Novosibirsk), Bykov R.A., Dubatolov V.V., Ilinsky Yu.Yu..	<i>Wolbachia</i> symbiont in Lepidoptera hosts of Khabarovsk region: Diversity and phylogenetic analysis of bacterial haplotypes
10:35 - 10:50	Abramson N.I. (Zoological Institute RAS, Scientific Center RAS, Saint-Petersburg), Bondareva O.V., Dzhaparidze L.A.	Population genetic structure of pulmonate mollusk <i>Arianta arbustorum L.</i> in the Baltic countries

10:50 – 11:15 – Coffee break

Section “Genetic processes in animal populations” Chairperson: Mudrik E.A.		
11:15 - 11:30	Bilokon S.Yu. (Ivan Franko National University of Lviv, Ukraine), Belokon M.M., Dykyy I.V., Zakharov E.S., Belokon Yu. S., Politov D.V.	Genetic diversity and differentiation of Eurasian red squirrel, <i>Sciurus vulgaris</i> L., populations by SSR data
11:30 - 11:45	Cherepanova E.V. (A.N. Severtzov Institute of Ecology and Evolution RAS, Moscow), Krivonogov D.M., Shchegol'kov A.V., Orlov V.N.	Hybrid zone between chromosome races of the common shrew (<i>Sorex araneus</i> Linnaeus, 1768) with ring-shaped hexavalent in hybrids
11:45 - 12:00	Malygin V.M. (Biological Faculty of Moscow State University, Moscow), Dmitriyev S.G., Baskevich M.I.	Intraspecific chromosomal variability in red voles of the genus <i>Clethrionomys</i> (Arvicolinae, Rodentia)
12:00 - 12:15	Ivanova A.D. (Lomonosov Moscow State University, Moscow), Solovyeva E.N., Ermakov O.A., Surin V.L., Formozov N.A.	Model of resettlement in red-cheeked ground squirrel (<i>Spermophilus erythrogegnys</i> sensu lato), belonging to different haplogroups, built using BEAST software package v 1.8.0
12:15 - 12:30	Zolotareva E.I. (Rostov Research Institute of Oncology, Rostov), Belokon M.M., Belokon Yu.S., Rutovskaya M.V., Hlyap L.A., Lebedev V.S., Bannikova A.A.	Population genetics and hybridization of the hedgehogs <i>Erinaceus europaeus</i> and <i>E. roumanicus</i> in Eastern Europe and Western Siberia
12:30 - 12:45	Nechaeva A.V. (Lomonosov Moscow State University, Moscow), Belokon M.M., Belokon Yu.S., Sarychev E.I., Beme I.R.	Genetic diversity of the Chukotka-Kamchatka gyrfalcon (<i>Falco rusticolus</i>) population based on the analysis of nuclear microsatellite loci
12:45 - 13:00	Gritsyshin V.A. (Lomonosov Moscow State University, Moscow), Artyushin I.A., Belokon M.M., Zakharov E.S., Aviolya K.V., Abramov A.V., Nizovtsev D.S., Gashev S.N., Politov D.V., Bannikova A.A.	New data on Siberian flying squirrel (<i>Pteromys volans</i>) phylogeography and the origin of population in the southwest of Moscow region

13:00 – 14:00 – Lunch

14:00 - 15:00	General Discussion and Final Comments
15:00 - 18:30	Excursion over Zvenigorod Biological Station or field excursion to the Sima Peatbog (picturesque wetland)

19:00 – 20:00 – Dinner

22 April, Saturday

8:00 – 9:00 – Breakfast
Departure of participants