



The International Conference Chromosome 2009

Novosibirsk
August 31 – September 6, 2009

Conference Program

August 31, Monday

The House of Scientists, Akademgorodok

16:00 – 18:00	Conference participants registration, Small Hall
18:00 – 18:30	Y.G. Doni violinist' chamber concert
18:30 – 22:00	Welcome party, Restaurant of the House of Scientists Reception of conference participants

September 1, Tuesday

The House of Scientists, Akademgorodok

8:30 – 09:30	Conference participants registration
9:30 – 9:50	Conference opening, Small Hall <i>Full members of RAS Prof. Valentin V. Vlasov and Prof. Igor F. Zhimulev; Prof. Alexander S. Grafodatsky</i>
Section I Genome organization, spatial organization of nucleus and chromosomes Small Hall, The House of Scientists <i>Co-chairmen: Corresponding Member of RAS Sergei V. Razin and Prof. Mikhail V. Glazkov</i>	
9:50 – 10:10	Dr. Irina V. Solovei <i>Biocenter, Ludwig-Maximilians University Munich, Germany</i> Inverted nuclear architecture and its development during differentiation of mouse rod photoreceptor cells

10:10 – 10:30	Dr. Boris I. Joffe <i>Biocenter, Ludwig-Maximilians University Munich, Germany</i> Positions of chromosomes in the interphase nucleus: where and why?
10:30 – 10:50	Dr. Sergei V. Razin <i>Institute of Gene Biology of RAS, Moscow, Russia</i> Spatial organization of genome domains and transcription regulation
10:50 – 11:10	Dr. Elena V. Kiseleva <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Nuclear matrix: structure, function and dynamics
11:10 – 11:30	Coffee break, Foyer of Small Hall
11:30 – 11:50	Dr. Vladimir N. Babenko <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Alternative landscape of Drosophila genome
11:50 – 12:10	Dr. Ivan Y. Iourov <i>Mental Health Research Center of RAMS, Moscow, Russia</i> Nuclear organization of interphase chromosomes in the human brain
12:10 – 12:30	Dr. Mikhail V. Glazkov <i>Koltzov Institute of Developmental Biology of RAS, Moscow, Russia</i> The role of chromosomal regions anchored to the nuclear envelope in the functional organization of chromosomes
12:30 – 12:50	Dr. Mikhail S. Gelfand <i>Institute for information transmission problems of RAS, Moscow, Russia</i> Comparative genomics of bacterial regulator systems. Evolution of alternative splicing
12:50 – 13:00	Dr. Maria A. Gracheva <i>Roche Moscow Ltd., Moscow, Russia</i> Ultra-high throughput genome sequencing system Genome Sequencer FLX
13:00 – 14:00	Dinner, Restaurant of the House of Scientists
Section I Genome organization, spatial organization of nucleus and chromosomes Small Hall, The House of Scientists <i>Co-chairmen: Corresponding Member of RAS Dr. Alexei P. Ryskov, Dr. Igor V. Makunin</i>	
14:00 – 14:20	Prof. Vladimir N. Stegnyy <i>Tomsk State University, Tomsk, Russia</i> Chromosome architecture of interphase nuclei of eukaryotes
14:20 – 14:40	Dr. Konstantin V. Severinov <i>Institute of Gene Biology of RAS, Moscow, Russia</i> Metagenomics

14:40 – 15:00	Prof. Sergei L. Kiselev <i>Vavilov Institute of General Genetics of RAS, Moscow, Russia</i> Induction of pluripotency in human somatic cells is accompanied by genome-wide epigenetic changes
15:00 – 15:20	Dr. Tatyana T. Glazko <i>Russian State Agrarian University MTAA named after K.A. Timiryazev, Moscow, Russia</i> Levels of genetical material organization and their correlation
15:20 – 15:40	Dr. Yulia A. Makarova <i>Engelhardt Institute of Molecular Biology of RAS, Moscow, Russia</i> Small nucleolus RNAs of vertebrates
15:40 – 16:00	Coffee break, Foyer of Small Hall
16:00 – 16:20	Prof. Alexei P. Ryskov <i>Institute of Gene Biology of RAS, Moscow, Russia</i> Genetic polymorphism and molecular structure of microsatellite loci in unisexual and bisexual lizard species of genus <i>Darevskia</i> (Lacertidae).
16:20 – 16:40	Dr. Elena V. Deineko <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Cytomixis in transgenic tobacco plants
16:40 – 17:00	Dr. Viktor A. Sokolov <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Chromosomal control of apomixis
17:00 – 17:20	Dr. Andrei K. Grishanin, Dr. Maksim V. Zagoskin <i>Vavilov Institute of General Genetics of RAS, Moscow, Russia</i> Unusual characters of cyclopoida chromosomes (Crustacea): structures and evolution aspects
17:20 – 17:40	Dr. Elena A. Zotkevich <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Genome reorganization and dynamics of telomere DNAs in Cyclops
17:40	Devoted for A.A. Prokofieva-Belgovskaya: film demonstration

September 2, Wednesday
The House of Scientists, Akademgorodok

Section I

Genome organization, spatial organization of nucleus and chromosomes

Small Hall, The House of Scientists

Co-chairmen: Prof. Vladimir N. Stegnyy and Dr. Georgy V. Shpakovski

9:00 – 9:30	Poster session, The foyer of Small Hall
9:30 – 9:50	Dr. Maria S. Rautian <i>Biological Institute of Saint-Petersburg State University, Saint-Petersburg, Russia</i> Infusorium genome: texture and evolution
9:50 – 10:10	Prof. Alexander N. Mosolov <i>Novosibirsk State Medical University, Novosibirsk, Russia</i> Chromosome as evolutionary problem
10:10 – 10:30	Dr. Boris F. Chadov <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Genetic system and energy meaning of living matter
10:30 – 10:50	Dr. Igor V. Makunin <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Transposons as source of promoters in the Drosophila genome
<p>Section II</p> <p>Special structures of chromosomes</p> <p>Small Hall, The House of Scientists</p> <p><i>Co-chairmen: Dr. Alexander V. Vershinin and Dr. Olga N. Danilevskaya</i></p>	
10:50 – 11:10	Prof. Pavel G. Georgiev <i>Institute of Gene Biology of RAS, Moscow, Russia</i> Study of insulator action mechanisms and communication between enhancer and promoter
11:10 – 11:30	Prof. Natalia A. Lyapunova <i>Medical Genetics Reserch Center of RAMS, Moscow, Russia</i> Four fractions of ribosomal genes in human genome, their organization in nucleolus and metaphase chromosomes
11:30 – 11:50	Coffee break, Foyer of Small Hall

11:50 – 12:10	Dr. Alexander V. Vershinin, Dr. Elena V. Evtushenko <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Molecular structure of subtelomeric heterochromatin regions in rye
12:10 – 12:30	Dr. Olga N. Danilevskaya, Dr. Evgeniy V. Ananiev <i>Pioneer Hi-Bred Int., USA</i> Centromere structure and de novo assembly of artificial chromosomes in Maize
12:30 – 12:50	Prof. Alexander V. Mazin <i>Drexel University College of Medicine, USA</i> Migration of Holliday Junction in genetical recombination
12:50 – 13:10	Dr. Olga I. Podgornaya <i>Institute of Cytology of RAS, Saint-Petersburg, Russia</i> Mouse tandem repeats with centromeric and pericentromeric location in silico and in situ
13:10 – 14:00	Dinner, Restaurant of the House of Scientists
<p>Section II</p> <p>Special structures of chromosomes</p> <p>Small Hall, The House of Scientists</p> <p><i>Co-chairmen: Prof. Natalia A. Lyapunova and Dr. Vladimir A. Trifonov</i></p>	
14:00 – 14:20	Prof. Arturo Londoño-Vallejo <i>Institut Curie, France</i> Telomere clustering around PML bodies promotes recombination between heterologous chromosomes in human somatic cells
14:20 – 14:40	Dr. Natalia S. Zhdanova <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Unusual telomeres on chromosomes of one of shrew's species, <i>Sorex granarius</i>
14:40 – 15:00	Dr. Yuri M. Borisov <i>A.N. Severtsov Institute of Ecology and Evolution of RAS, Moscow, Russia</i> B-chromosomes mobility
15:00 – 15:20	Prof. Roscoe Stanyon <i>University of Florence, Italy</i> Primate chromosome evolution: marker order and neocentromeres
15:20 – 15:40	Dr. Vladimir A. Trifonov <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> B chromosomes, segmental duplications and evolution

15:40 – 15:50	Dr. Anastasia G. Koroleva <i>Limnological Institute of SB RAS, Irkutsk, Russia</i> The length telomeric DNA of lake Baikal flat worms (Plathelminthes, Turbellaria, Tricladida): relation with the lifespan and evolution
15:50 – 16:00	Coffee break, Foyer of Small Hall
16:00 – 16:10	Dr. Oleg V. Podgorny <i>Koltzov Institute of Developmental Biology of RAS, Moscow, Russia</i> Laser Microdissection in medical and biological researches
Section III Chromosomes in mitochondria Small Hall, The House of Scientists <i>Chairman: Prof. Rem I. Sukernik and Dr. Sardana A. Fedorova</i>	
16:10 – 16:20	Dr. Elena N. Morozova <i>Head of Branch OOO “OPTEC”, Novosibirsk, Russia</i> Presentation of OOO “OPTEC” - exclusive representative of Carl Zeiss
16:20 – 16:30	Dr. Andrei V. Zatsepin <i>MetaSystems, Moscow, Russia</i> Systems for search and analysis of cells, tissues and chromosomes
16:30 – 16:50	Dr. Ilya O. Mazunin <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Mitochondria: new data on structure and function
16:50 – 17:10	Dr. Nadezhda V. Vorobjeva <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Genotyping of fossil DNA <i>Capreolus pygargus</i> from Denisova Cave: phylogenetic relationship with modern populations
17:10 – 17:30	Dr. Sardana A. Fedorova <i>Yakutsk Science Centre of Complex Medical Problems of SB RAMS, Yakutsk, Russia</i> mtDNA and Y-chromosomal variation in populations of Sakha (Yakutia)
17:30 – 17:50	Dr. Elena B. Starikovskaya <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Initial settling of Siberia and Americas by modern human resulting from phylogeography analysis of mtDNA genome
17:50 – 18:00	Dr. Konstantin Y. Popadin <i>Institute for information transmission problems of RAS, Moscow, Russia</i> Evolution of mammalian mitochondrial genome

18:00 – 18:20	Prof. Rem I. Sukernik, <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Mitochondrial genome and human mitochondrial diseases: evolutionary context
18:20	Off-section meeting To the Memory of Dr. Evgeniy V. Ananiev (1947 – 2008)
September 3, Thursday The House of Scientists, Akademgorodok	
Social events	
9:00 – 10:00	Poster session, The foyer of Small Hall
10:00 – 13:00	<i>The tour “Museums of Akademgorodok” for the participants:</i> - The Museum of Siberian Branch of RAS, - The Museum of Archaeology and Ethnography, - The Central Siberian Geological Museum, - The Central Siberian Botanical Garden <i>The tour “Museums of Akademgorodok” will take place at 10:00-13:00, (Bus park in front of the House of Scientists)</i>
13:00 – 14:00	Dinner, Restaurant of the House of Scientists

Section IV Chromosomes and evolution Small Hall, The House of Scientists <i>Co-chairmen: Prof. Ludmila V. Vysotskaya and Prof. Sergei N. Rodin</i>	
14:00 – 14:20	Prof. Ludmila V. Vysotskaya <i>Novosibirsk State University, Novosibirsk, Russia</i> Heterochromatin and recombination in karyotype evolution of grasshoppers
14:20 – 14:40	Prof. Sergei N. Rodin <i>Beckman Research Institute of the City of Hope, USA</i> Epigenetic mechanisms in evolution by gene duplications: natural selection favors CpGs in coding regions of HOX genes
14:40 – 15:00	Dr. Igor V. Sharakhov <i>Virginia Tech, USA</i> Molecular landscape and evolutionary plasticity of chromosome arms in malaria mosquitoes
15:00 – 15:20	Dr. Larisa I. Gunderina <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Evolution of banding sequences pools of Chironomus species (Diptera, Chironomidae) in Holarctic
15:20 – 15:40	Dr. Georgy V. Shpakovski <i>Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry of RAS, Moscow, Russia</i> PMS2 and POLR2J Gene Families as Molecular Markers of Higher Primate's Evolution
15:40 – 16:00	Coffee break, Foyer of Small Hall
16:00 – 16:20	Dr. Vladimir A. Lukhtanov, Prof. Valentina G. Kuznetsova <i>Zoological Institute of RAS, Saint-Petersburg, Russia</i> What do genes and chromosomes tell us about the origin and evolution of insects and other arthropods?
16:20 – 16:40	Dr. Alexander A. Belyayev <i>Institute of Evolution, University of Haifa, Israel</i> Dynamics of repetitive DNA fraction as an indicator of the speciation process in species of the Poaceae family
16:40 – 17:00	Dr. Irina G. Adonina, Dr. Elena A. Salina <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Divergence of Aegilops/Triticum chromosomes and genomes during the evolution

17:00 – 17:20	Dr. Nina Sh. Bulatova <i>A.N. Severtsov Institute of Ecology and Evolution of RAS, Moscow, Russia</i> Chromosomal polytypy of species in view of the Vavilov – Darwin’s geographical principle
17:20 – 17:40	Dr. Svetlana V. Pavlova <i>A.N. Severtsov Institute of Ecology and Evolution of RAS, Moscow, Russia</i> Hybridization of the chromosomal races of the common shrew (<i>Sorex araneus</i> L.) in European Russia: cytogenetic identification and meiosis of complex Robertsonian heterozygotes variants
17:40 – 18:00	Dr. Anna A. Yurlova <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Conservation of domain structure in a fast-evolving heterochromatic SUUR protein in drosophilids
18:00	Prof. Ilya A. Zakharov-Gezekhus <i>Vavilov Institute of General Genetics of RAS, Moscow, Russia</i> Y-chromosome of Chingis-Han: search in Russia
<p>September 4, Friday</p> <p>The House of Scientists, Akademgorodok</p>	
<p>Section IV</p> <p>Chromosomes and evolution</p> <p>Small Hall, The House of Scientists</p> <p><i>Co-chairmen: Prof. Elena R. Gaginskaya and Prof. Alexander V. Rodionov</i></p>	
9:00 – 9:40	Prof. Charles R. Cantor <i>Director of the Human Genome Center Project of the Department of Energy at Lawrence Berkeley Laboratory, SEQUENOM, Inc., USA</i> The advantages of sensitivity and precision in genetic, expression and epigenetic studies
9:40 – 10:00	Dr. Elena K. Khlestkina, Dr. Elena A. Salina <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Chromosome deletion and genetic mapping as a base for investigation of structural and functional organization of wheat genome and development of novel cultivars
10:00 – 10:20	Dr. Larisa S. Biltueva <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Comparative cytogenetics of the Eulipotyphla

10:20 – 10:30	Dr. Anastasia I. Kulemzina <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Comparative cytogenetics of the main taxa of order Cetartiodactyla
10:30 – 10:50	Dr. Natalia A. Lemskaya <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Comparative cytogenetics of ten species from genus <i>Microtus</i>
10:50 – 11:10	Dr. Svetlana A. Romanenko <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Comparative cytogenetics of muroid rodents
11:10 – 11:30	Coffee break, Foyer of Small Hall
11:30 – 11:50	Dr. Irina V. Kartavtseva <i>Institute of Biology and Soil Science of FEB RAS, Vladivostok, Russia</i> Chromosomal variability of mammals from the Russian Far East
11:50 – 12:10	Dr. Irina Y. Bakloushinskaya <i>Koltsov Institute of Developmental Biology of RAS, Moscow, Russia</i> Robertsonian translocation and evolution of mole-voles (<i>Ellobius</i> , Rodentia Mammalia)
12:10 – 12:30	Dr. Nadezhda V. Rubtsova <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Chromosomes in evolution: species from genus <i>Microtus</i>
12:30 – 12:50	Dr. Elena Y. Ivanitskaya <i>Institute of Evolution, University of Haifa, Israel</i> Chromosomes in a hybrid zone of israeli mole rats (<i>Spalax</i> , Rodentia)
12:50 – 13:00	Dr. Andrey E. Lapin <i>OOO "OPTEC", Novosibirsk, Russia</i> Carl Zeiss: innovations for cytogenetics
13:00 – 14:00	Dinner, Restaurant of the House of Scientists

<p>Section IV</p> <p>Chromosomes and evolution</p> <p>Small Hall, The House of Scientists</p> <p><i>Co-chairmen: Prof. Alexander S. Grafodatsky and Prof. Malcolm Ferguson-Smith</i></p>	
14:00 – 14:20	<p>Prof. Alexander S. Grafodatsky <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Comparative cytogenetics: from dawn till dusk?</p>
14:20 – 14:40	<p>Prof. Malcolm Ferguson-Smith <i>University of Cambridge, UK</i> Chromosome painting and the resolution of the unique sex determining system in platypus and echidna</p>
14:40 – 15:00	<p>Dr. Violetta R. Beklemisheva <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Comparative chromosomal analysis of Sciuromorpha</p>
15:00 – 15:20	<p>Dr. Nikolay A. Poyarkov <i>Moscow State University, Moscow, Russia</i> Cytogenetical and molecular aspects of evolution of Hynobius (Hynobiidae, Caudata, Amphibia)</p>
15:20 – 15:40	<p>Prof. Alexander V. Rodionov <i>Komarov Botanical Institute of RAS, Saint-Petersburg, Russia</i> T-bands of mammaia chromosomes and their origin</p>
15:40 – 16:00	<p>Coffee break, Foyer of Small Hall</p>
16:00 – 16:20	<p>Prof. Ilya A. Zakharov-Gezekhus <i>Vavilov Institute of General Genetics of RAS, Moscow, Russia</i> Is the order of genes in chromosomes formed by accident?</p>
16:20 – 16:40	<p>Prof. Elena R. Gaginskaya <i>Biological Institute of Saint-Petersburg State University, Saint-Petersburg, Russia</i> Lampbrush chromosomes of birds: research and prospects</p>
16:40 – 17:00	<p>Dr. Svetlana A. Galkina <i>Biological Institute of Saint-Petersburg State University, Saint-Petersburg, Russia</i> Cytogenetic analysis of avian karyotypes using lampbrush chromosome model</p>
17:00 – 17:20	<p>Dr. Olga V. Muravenko, Dr. Nadezhda L. Bolsheva <i>Engelhardt Institute of Molecular Biology of RAS, Moscow, Russia</i> Karyogenomic study of species from genus <i>Linum</i> L.</p>

17:20 – 17:40	Dr. Anna V. Kukekova <i>Cornell University, Ithaca, USA</i> Mapping fox genome using dog tools
17:40 – 18:00	Dr. Irina N. Ryazanova <i>Institute of Biology of Sea of FEB RAS, Vladivostok, Russia</i> Probable directions of karyotype evolution of <i>Myoxocephalus</i> и <i>Megalocottus</i> from Sea of Japan and Sea of Okhotsk
September 5, Saturday The House of Scientists, Akademgorodok	
Section V Human chromosomes. Chromosome pathologies Small Hall, The House of Scientists <i>Co-chairmen: Prof. Svetlana A. Limborska and Prof. Luba Trakhtenbrot</i>	
9:00 – 9:30	Poster session, The foyer of Small Hall
9:30 – 9:50	Prof. Luba Trakhtenbrot <i>The Cancer Research Center, Sheba Medical Center, Israel</i> Early detection of aneuploid cells in high risk patients and premalignant oral and larynx lesions by using a combined morphological and FISH analysis
9:50 – 10:10	Prof. Yuri B. Yurov, Prof. Svetlana G. Vorsanova <i>Mental Health Research Center of RAMS, Moscow, Russia</i> Chromosome instability in the normal and diseased human brain
10:10 – 10:30	Prof. Svetlana A. Limborska <i>Institute of Molecular Genetics of RAS, Moscow, Russia</i> Human DNA diversity in population gene pool of East European ethnic groups
10:30 – 10:50	Dr. Ludmila P. Osipova <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Genetical variety of gene pools of native Siberian nations
10:50 – 11:10	Dr. Vanik A. Ovsepyan <i>Institute of Haematology and Blood Transfusion of Federal Medical Biology Agency, Kirov, Russia</i> The clinical and pathogenetic significance of genetic alteration in chronic myeloid leukemia
11:10 – 11:30	Coffee break, Foyer of Small Hall

<p>Section VI</p> <p>Chromosomes in cellular divisions</p> <p>Small Hall, The House of Scientists</p> <p><i>Co-chairmen: Prof. Yuri F. Bogdanov and Dr. Leonid V. Omelyanchuk</i></p>	
11:30 – 11:50	<p>Prof. Yuri F. Bogdanov <i>Vavilov Institute of General Genetics of RAS, Moscow, Russia</i> DNA-protein interactions and evolution of meiosis</p>
11:50 – 12:10	<p>Prof. Lev Fedorov <i>Oregon Health & Science University, USA</i> Targeting of <i>Bub1b</i> leads to loss of spindle checkpoint function and embryonic lethality</p>
12:10 – 12:30	<p>Dr. Valery L. Chubykin <i>Vavilov Institute of General Genetics of RAS, Moscow, Russia</i> Epigenetic nature of deleterious mutations and their correction at meiosis</p>
12:30 – 12:50	<p>Dr. Elena I. Mikhailova <i>Saint-Petersburg Branch of the Vavilov Institute of General Genetics of RAS, Saint-Petersburg, Russia</i> Some peculiarities of meiosis key events in rye and its synaptic mutants</p>
12:50 – 13:00	<p>Dr. Tatyana V. Likhoshvay <i>Microscopy Regional Representative, Olympus RUS, Russia</i> OLYMPUS: tools for chromosomal analysis</p>
13:00 – 14:00	<p>Dinner, Restaurant of the House of Scientists</p>
14:00 – 14:20	<p>Dr. Leonid V. Omelyanchuk <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> The role of <i>Drosophila</i> Merlin functional domains in spermatogenesis</p>
14:20 – 14:40	<p>Dr. Natalia V. Shamina <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Corrections of cytoskeleton abnormalities in plant cell division</p>
14:40 – 15:00	<p>Dr. Ekaterina N. Baranova <i>All-Russian Institute of Agricultural Biotechnology, Moscow, Russia</i> Ultrastructure of nucleus subcompartments in cells of wheat meristema in connection with cell cycle phases and abiotic stress factor action</p>

Section VII

Mechanisms of the mammalian X chromosome inactivation

Small Hall, The House of Scientists

Co-chairmen: Dr. Nikolai N. Kolesnikov and Prof. Suren M. Zakian

15:00 – 15:20	Dr. Nikolai N. Kolesnikov <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Noncoding Regulatory RNAs of the Mammalian X chromosomes. The Origin and Evolution
15:20 – 15:40	Dr. Olga A. Zhukova, Dr. Evgeniy A. Elisafenko <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Study of transcriptional regulation and origin of Tsix gene
15:40 – 16:00	Coffee break, Foyer of Small Hall
16:00 – 16:20	Dr. Konstantin E. Orishchenko <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Structural and functional organization of the regulatory regions of the Xist gene in <i>Microtus rossiaemeridionalis</i>
16:20 – 16:40	Dr. Elena V. Grigor'eva <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Trophoblast stem cells of common vole of the genus <i>Microtus</i> are a model to study imprinted X-inactivation
16:40 – 17:00	Dr. Eugenia A. Vaskova <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Chromatin modifications of inactiv X-chromosome in common voles
17:00 – 17:20	Dr. Elena V. Dementyeva <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> Expression and methylation statuses of X-linked genes in vole somatic and extraembryonic tissues
17:20 – 17:40	Dr. Irina S. Zakharova <i>Institute of Cytology and Genetics of SB RAS, Novosibirsk, Russia</i> X chromosome organisation and inactivation in marsupial opossums

<p>September 6, Sunday</p> <p>The House of Scientists, Akademgorodok</p>	
<p>Section VIII</p> <p>Polytene chromosomes</p> <p>Small Hall, The House of Scientists</p> <p><i>Co-chairmen: Dr. Sergei A. Demakov and Dr. Yuri Y. Shevelyov</i></p>	
9:00 – 9:30	Poster session, The foyer of Small Hall
9:30 – 9:50	<p>Dr. Stepan N. Belyakin <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Gene density in the late replicated domains of <i>Drosophila melanogaster</i></p>
9:50 – 10:10	<p>Prof. Igor F. Zhimulev <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Intercalary heterochromatin</p>
10:10 – 10:30	<p>Dr. Yuri Y. Shevelyov <i>Institute of Molecular Genetics of RAS, Moscow, Russia</i> Nuclear lamina represses leaky transcription</p>
10:30 – 10:50	<p>Dr. Tatiana D. Kolesnikova <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Study of DNA replication in isolated organs of <i>Drosophila melanogaster</i> by molecular combing</p>
10:50 – 11:10	<p>Dr. Yuri B. Schwartz <i>Rutgers University, Piscataway, USA</i> Genome programming by Polycomb and Trithorax group proteins</p>
11:10 – 11:30	Coffee break, Foyer of Small Hall
11:30 – 11:50	<p>Prof. Prim Singh <i>Borstel Institute, Leibniz, Germany</i> Lost in translation? – the function of HP1β</p>
11:50 – 12:10	<p>Dr. Maria V. Sharakhova <i>Virginia Tech, USA</i> Structural organization and evolutionary dynamics of the malaria mosquito heterochromatin</p>

12:10 – 12:30	Dr. Lidia V. Boldyreva, <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Polytene chromosomes from <i>SuUR^{ES} Su(var)3-9^{o6}</i> double mutants as a useful tool for cytogenetic mapping of <i>Drosophila melanogaster</i> heterochromatin
12:30 – 12:50	Dr. Sergei A. Demakov <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Functional organization of interchromomeres in <i>Drosophila</i> polytene chromosomes
12:50 – 14:00	Dinner, Restaurant of the House of Scientists
Section VIII Polytene chromosomes Small Hall, The House of Scientists <i>Co-chairmen: Dr. Elena S. Belyaeva and Dr. Boris F. Chadov</i>	
14:00 – 14:20	Dr. Alexei N. Krasnov, Dr. Sofia G. Georgieva <i>Engelhardt Institute of Molecular Biology of RAS, Moscow, Russia</i> SAGA and a novel export complex anchor efficient transcription and mRNA export to NPC
14:20 – 14:40	Dr. Nadezhda E. Vorobyeva, Dr. Elena N. Nabirochkina <i>Institute of Gene Biology of RAS, Moscow, Russia</i> Novel mechanism of transcription activation by BTFLy supercomplex combining TFIID and Brahma complexes
14:40 – 15:00	Dr. Ivan A. Zykov <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> <i>Drosophila</i> heterochromatin structure under <i>SuUR</i> ectopic expression
15:00 – 15:20	Dr. Ahdrey A. Gorchakov <i>Brigham and Womens Hospital, Harvard Medical School, USA</i> Dosage compensation in <i>Drosophila melanogaster</i>
15:20 – 15:40	Dr. Dmitry E. Koryakov <i>Institute of Chemical Biology and Fundamental Medicine of SB RAS, Novosibirsk, Russia</i> Histone modifications in heterochromatic genes in polytene chromosomes of <i>Drosophila</i>
15:40 – 16:00	Conference concluding remarks <i>Prof. Igor F. Zhimulev, Prof. Alexander S. Grafodatsky</i>
18:00	Farewell party, Restaurant of the House of Scientists