

**МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ
ХРОМОСОМА 2023
ПРОГРАММА**



**INTERNATIONAL CONFERENCE
CHROMOSOME 2023
PROGRAM**



**5 - 10 сентября 2023, Новосибирск
September 5 - 10, 2023, Novosibirsk, Russia**



Program

September 5, Tuesday

16:00–18:00 Registration

18:00–22:00 Welcome party

September 6, Wednesday

08:30–09:00 Registration

Conference opening Opening lectures

09:00–09:20 **Igor F. Zhimulev**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
On the organization of the conference.
In memory of N.K. Koltsov and S.L. Frolova

09:20–09:40 **Alexander S. Graphodatsky**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
A.A. Prokofyeva-Belgovskaya – 120 years on the background of a chromosome

09:40–10:00 **Nina Sh. Bulatova**, A.N. Severtsov Institute of Ecology and Evolution, Moscow, Russia
Mammalian cytogenetics and its contribution to the development of chromosomal diagnostics and systems of species

Section I

Chromosomes and genomes

Co-chairmen: Alexander S. Graphodatsky, Nikolay B. Rubtsov

10:00–10:20 **Veit Schubert**, Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany
Is chromonema coiling conserved in eukaryotes?
on-line

- 10:20–10:40 **Vladimir A. Lukhtanov**, Zoological Institute, St. Petersburg, Russia
Cytogenetics of non-model insect species in the era of assembly of complete genomes
- 10:40–11:00 **Nazar A. Shapoval**, Zoological Institute, St. Petersburg, Russia
Study of parthenogenetic and bisexual populations of psyllids of the genus *Cacopsylla* (Hemiptera, Psylloidea) by methods of chromosome and molecular analysis
on-line
- 11:00–11:20 **Coffee break**
- 11:20–11:40 **Anastasia A. Proskuryakova**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Chromosome evolution in Ruminantia
- 11:40–12:00 **Irina Yu. Bakloushinskaya**, Koltzov Institute of Developmental Biology, Moscow, Russia
Chromosome changes and speciation: the mole voles of the subgenus *Ellobius*
- 12:00–12:20 **Valentina G. Tambovtseva**, Koltzov Institute of Developmental Biology, Moscow, Russia
Chromosomal variability of the Alai mole vole *Ellobius alaicus* in the general mosaic of genetic variability
- 12:20–12:40 **Nikolay B. Rubtsov**, Institute of Cytology and Genetics, Novosibirsk, Russia
Karyotype and genome of *Macrostomum lignano*: an unusual result of karyotypic and genomic evolution after whole genome duplication
- 12:40–13:00 **Ingo Schubert**, Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany
The puzzling genomes of the Lemnaceae family
on-line
- 13:00–14:00 **Lunch**

Section II Heterochromatin

Chairman: Igor F. Zhimulev

- 14:00–14:20 **Eugene N. Kozlov**, Institute of Gene Biology, Moscow, Russia
Study of the mechanisms of work of promoters of heterochromatic genes
- 14:20–14:40 **Mariya V. Maltseva**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Conservative protein RCC1 is a new component of the inactive regions of *Drosophila* polytene chromosomes
- 14:40–15:00 **Vladimir E. Gokhman**, Lomonosov Moscow State University, Moscow, Russia
Repetitive DNA sequences in the Hymenoptera (Insecta) genome
- 15:00–15:20 **Svetlana A. Romanenko**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Constitutive heterochromatin in rodents (Rodentia, Mammalia)
- 15:20–15:40 **Marina A. Popova**, Institute of Cytology, St. Petersburg, Russia
Analysis of the diversity of large tandem repeats in Carnivora genomes
- 15:40–16:00 **Coffee break**
- 16:00–16:20 **Aleksey S. Komissarov**, ITMO University, St. Petersburg, Russia
Redefining tandem repeat analysis in mammalian genomes: a novel software toolset and classification approach
on-line

16:20–16:40 **Prim Singh**, Nazarbayev University School of Medicine,
Astana, Kazakhstan
HP1 proteins and phase separation

Sponsor's reports

16:40–16:50 **Anton A. Korolkov**, STORMOFF
Modern microscopy – from simple to complex.
Light microscope selection criteria

16:50–17:00 **Andrey A. Barinov**, INTERGEN
Applied Spectral Imaging. Chromosomal analysis –
karyotyping. FISH analysis

17:00–20:00 **Cultural program**

September 7, Thursday

Section III

Genetic organization of the interphase chromosome

Co-chairmen: Sergey A. Demakov, Tatyana D. Kolesnikova

09:00–09:20 **Tatyana Yu. Vatolina**, Institute of Molecular and Cellular
Biology, Novosibirsk, Russia
Structure and organization of promoters in housekeeping
and developmental genes in *Drosophila*

09:20–09:40 **Evgeniya S. Soboleva**, Tomsk State University, Tomsk,
Russia
Iterative mapping is a new approach to genomic mapping
of inversion breakpoints on the example of chromosomes
of malarial mosquitoes of the genus *Anopheles* of the
Maculipennis subgroup

09:40–10:00 **Alla V. Krasikova**, St. Petersburg State University, St.
Petersburg, Russia
Domestic chicken oocyte nuclear transcriptome: full
spectrum of sequences transcribed on lateral loops
of lampbrush chromosomes
on-line

- 10:00–10:20 **Nadezhda E. Vorobyeva**, Institute of Gene Biology, Moscow, Russia
Transcription activation by ecdysone in salivary glands of *Drosophila melanogaster* larvae
- 10:20–10:40 **Igor S. Osadchiy**, Institute of Gene Biology, Moscow, Russia
Architectural proteins Opbp and M1BP have similar functions in the organization of the active housekeeping gene promoter
- 10:40–11:00 **Nariman R. Battulin**, Institute of Cytology and Genetics, Novosibirsk, Russia
Architectural proteins of chromatin cohesin and condensins are involved in maintaining the stability of the genome
- 11:00–11:20 **Coffee break**
- 11:20–11:40 **Valentin A. Babosha**, Institute of Gene Biology, Moscow, Russia
The critical role of the unstructured N-terminal region of the MSL1 protein in the functioning of the dosage compensation complex in *Drosophila melanogaster*
- 11:40–12:00 **Evgeniya A. Tikhonova**, Institute of Gene Biology, Moscow, Russia
Investigation of the role of MSL2 protein domains in the recruitment of the dosage compensation complex in *Drosophila melanogaster*
- 12:00–12:20 **Daria V. Kopytova**, Engelhardt Institute of Molecular Biology, Moscow, Russia
The PCID2 subunit of the *D. melanogaster* TREX-2 complex has two RNA-binding regions required for mRNA export from the nucleus

- 12:20–12:40 **Alexander Yu. Konev**, National Research Centre “Kurchatov Institute” – PNPI, Gatchina, Russia
The role of Chd1 chromatin assembly and remodeling factor in the regulation of dose compensation in *Drosophila*
- 12:40–13:00 **Maxim V. Tikhonov**, Institute of Gene Biology, Moscow, Russia
Trans-splicing in *Drosophila melanogaster*
- 13:00–13:20 **Dmitry E. Koryakov**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Histone methyltransferases Su(var)3-9 and SetDB1 in *Drosophila*
- 13:20–13:40 **Evgeniya N. Andreyeva**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Multiplex analysis of the effect of transcription termination on gene activity in eukaryotes

13:40–14:40 **Lunch**

Section IV

Eukaryote genome and its evolution

Chairman: Nadezhda E. Vorobyeva

- 14:40–15:00 **Pavel A. Panikhin**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Characterization of hybrid progeny from distant hybridization of *Zea mays* with *Tripsacum dactyloides*
- 15:00–15:20 **Polina B. Drozdova**, Irkutsk State University, Irkutsk, Russia
Reproductive barriers, genome size, and repeat composition in endemic species of Baikal amphipods (Crustacea: Amphipoda) of the *Eulimnogammarus* genus

15:20–15:40 **Ekaterina V. Madyarova**, Irkutsk State University, Irkutsk, Russia
Genome size and population genetic structure of two closely related species of Baikal endemic amphipods of the genus *Ommatogammarus* in the depth gradient

15:40–16:00 **Coffee break**

16:00–18:00 **Poster session**

September 8, Friday

Section V

Nucleus structure

Chairman: Yuri Ya. Shevelyov

- 09:00–09:20 **Yuri Ya. Shevelyov**, Institute of Molecular Genetics of "Kurchatov Institute", Moscow, Russia
Influence of Elys nucleoporin on genomic architecture in *Drosophila*
- 09:20–09:40 **Kirill A. Ulianov**, Skoltech, Moscow, Russia
Dynamics of chromatin architecture in *Saccharomyces cerevisiae* cell cycle
- 09:40–10:00 **Veniamin S. Fishman**, Institute of Cytology and Genetics, Novosibirsk, Russia
Chromosome conformation capture technologies for studying animal chromatin structure, assembling genomes, and detecting chromosomal rearrangements
- 10:00–10:20 **Igor V. Sharakhov**, Virginia Polytechnic Institute and State University, Blacksburg, USA
Dynamics of the 3D genome architecture in a malaria mosquito
on-line

10:20–10:40 **Maria M. Gridina**, Institute of Cytology and Genetics,
Novosibirsk, Russia
Organization of insect chromatin in the mammalian
nucleus

10:40–11:00 **Elena S. Klushevskaya**, Engelhardt Institute of Molecular
Biology, Moscow, Russia
Redistribution of nucleolar proteins during heat shock in
human cells
on-line

11:00–11:20 **Coffee break**

Section VI

Special chromosomes

Chairman: Alexander Yu. Konev

11:20–11:40 **Sergey V. Netesov**, Novosibirsk State University,
Novosibirsk, Russia
Basic principles of the structure of virus genomes
and their taxonomy

11:40–12:00 **Yuri M. Konstantinov**, Siberian Institute of Plant
Physiology and Biochemistry, Irkutsk, Russia
DNA import into plant mitochondria: state of the art
and prospects for use in fundamental and applied
research
on-line

12:00–12:20 **Natalya G. Andreyenkova**, Institute of Molecular and
Cellular Biology, Novosibirsk, Russia
Genetic relatedness of the black kite (*Milvus migrans*)
populations of Asia, Taiwan, Japan and Australia: does
Taiwanese subspecies exist?

12:20–12:40 **Maria V. Golubenko**, Research Institute of Medical
Genetics, Tomsk, Russia
Fragments of mitochondrial DNA in the human nuclear
genome

12:40–13:30 **Lunch**

Section VII

Medical genetics and other human related

Co-chairmen: Igor N. Lebedev, Ilya O. Mazunin

- 13:30–13:50 **Ilya O. Mazunin**, Skolkovo Institute of Science and Technology, Moscow, Russia
Human embryo selection based on mitochondrial DNA quality and quantity
- 13:50–14:10 **Beatrisa A. Rimskaya**, Skolkovo Institute of Science and Technology, Moscow, Russia
Optimization of CRISPR-Cas12a for improving human mitochondrial genome editing
- 14:10–14:30 **Elena B. Starikovskaya**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Epidemiology and differential diagnosis of hereditary optic neuropathies
- 14:30–14:50 **Igor N. Lebedev**, Research Institute of Medical Genetics, TNRMC, Tomsk, Russia
The nature and spatiotemporal allocation of mosaic chromosomal abnormalities in first trimester miscarriages
- 14:50–15:10 **Natella I. Enukashvily**, Institute of Cytology, St. Petersburg, Russia
The role of transcription of pericentromeric tandem repetitive DNA in carcinogenesis
- 15:10–15:30 **Nikita V. Ponomartsev**, Institute of Cytology, St. Petersburg, Russia
Transcription of centromeric satellite DNA in human and mouse lung adenocarcinoma stromal fibroblasts: a role in carcinogenesis
- 15:30–15:50 **Ksenia N. Morozova**, Institute of Cytology and Genetics, Novosibirsk, Russia
Complex of disturbances in the intracellular organization of neurons differentiated from fibroblasts of patients with Cohen's syndrome

15:50–16:10 **Coffee break**

16:15–16:25 General photo of the conference participants

16:30–19:00 **Cultural program**

September 9, Saturday

Section VIII

Chromosomes and cell division

Chairman: Vladimir A. Lukhtanov

- 09:00–09:20 **Maurizio Gatti**, IBPM, CNR, Sapienza University of Rome, Rome, Italy
The mitotic roles of nucleolar proteins
- 09:20–09:40 **Maria M. Kurshakova**, Engelhardt Institute of Molecular Biology, Moscow, Russia
Orc5 is present at the histone gene locus and is involved in the regulation of their expression
- 09:40–10:00 **Tatyana D. Kolesnikova**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Drosophila polytene chromosomes as a tool for studying the probabilistic nature of replication initiation
- 10:00–10:20 **Petr P. Laktionov**, Novosibirsk State University, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
The role of sirtuins in the regulation of aging of resident human stem cells

Section IX

B chromosomes, telomeres, centromeres, and mobile elements

Co-chairmen: Alexander V. Vershinin, Alla I. Kalmykova

- 10:20–10:40 **Andreas Houben**, Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany
B chromosome, chromosome drive
on-line
- 10:40–11:00 **Svetlana V. Pavlova**, A.N Severtsov Institute of Ecology and Evolution, Moscow, Russia
B chromosome polymorphism in narrow-headed voles of subgenus *Stenocranium* (*Lasiopodomys*, Cricetidae)
- 11:00–11:20 **Coffee break**
- 11:20–11:40 **Marija Rajičić**, National Institute of the Republic of Serbia, University of Belgrade, Serbia
B chromosome inheritance in *Apodemus flavicollis*
on-line
- 11:40–12:00 **Aleksandra O. Travina**, Institute of Cytology, St. Petersburg, Russia
Interaction of the linker domain of the telomere-binding protein TRF2 with lamin
on-line
- 12:00–12:20 **Dmitry S. Bogolyubov**, Institute of Cytology, St. Petersburg, Russia
Revision of classical ideas about the karyosphere capsule
- 12:40–13:00 **Olesya A. Sokolova**, Koltzov Institute of Developmental Biology, Moscow, Russia
The insulator protein BEAF32 is required for telomere elongation and maintenance of subtelomeric chromatin domains

13:00–13:20 **Alla I. Kalmykova**, Koltzov Institute of Developmental Biology, Moscow, Russia
New piRNA-independent mechanism of regulation of mobile elements and telomeres in *Drosophila* gametogenesis

13:20–14:10 **Lunch**

14:10–14:30 **Yikang Rong**, University of South China, Hunan, China
Keeping transposons at telomeres

14:30–14:50 **Elena R. Gaginskaya**, St. Petersburg State University, St. Petersburg, Russia
Insertion of the 5S rRNA gene into the ribosomal intergene spacer (IGS) sequence in vertebrates

14:50–15:10 **Sima S. Gatskaya**, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Expression of CENH3 genes and spatial organization of parental genomes in cells of allopolyploid cereal hybrids

15:10–15:30 **Svetlana A. Galkina**, St. Petersburg State University, St. Petersburg, Russia
Germline restricted chromosome behavior in the zebra finch oocytes

19:00–22:00 **Farewell party**

September 10, Sunday – September 11, Monday

Two-days tour of the natural attractions of the Novosibirsk region

Poster presentations

Irina G. Adonina, Institute of Cytology and Genetics, Novosibirsk, Russia
Introgressive hybridization of common wheat

Ildar R. Alembekov, Engelhardt Institute of Molecular Biology, Moscow, Russia
Evidences for specific proteins associated with hot spots of physiological double-stranded genomic DNA breaks at forum domain termini

Polina A. Antoshina, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
The role of the dREAM complex in gene regulation in *Drosophila melanogaster* spermatogenesis

Nadezhda V. Battulina, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Development of the effective system of targeted gene repression using chimeric dCas12-REPRESSOR proteins in *Drosophila melanogaster* S2 cell model

Darya O. Bayramova, Engelhardt Institute of Molecular Biology, Moscow, Russia
The mammalian PBAF complex specifically recognizes H3K14ac via the DPF domain of the PHF10-P subunit

Violetta R. Beklemisheva, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Studies of constitutive heterochromatin and comparative chromosome maps in martens from the genera *Martes* (Mustelidae, Carnivora, Mammalia): using bioinformatics' analysis and methods of molecular cytogenetics

Tatiana I. Bikchurina, Novosibirsk State University, Novosibirsk, Russia
Hybrid sterility of male gray voles of the genus *Microtus*: cytogenetic and transcriptomic analysis

Zarema M. Biyasheva, al-Farabi Kazakh National University, Almaty, Kazakhstan
Epigenetic effects of ionizing radiation in *Drosophila melanogaster* test systems

Ilya I. Brusentsov, Institute of Cytology and Genetics, Novosibirsk, Russia
Patterns of genetic differentiation imply distinct evolutionary histories of the sibling mosquito species *Anopheles messeae* and *Anopheles daciae* in Eurasia

Eduard A. Chuyko, Institute of Cytology and Genetics, Novosibirsk, Russia
The use of CRISPR/Cas9 technology in obtaining a megabase scale of deletions in the peritelomeric region of mouse chromosome 12 causes developmental arrest at early stages

Sergey A. Demakov, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
The use of directed genome editing systems in the study of the structural and functional organization of the Notch locus in *Drosophila melanogaster*

Mariia A. Dobrovolskaia, St. Petersburg State University, St. Petersburg, Russia
Lampbrush chromosomes of *Danio rerio*: morphological description and cytological mapping

Elena V. Evtushenko, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Dynamics of inclusion of centromeric histone H3 variants in centromere nucleosomes in allopolyploid rye and wheat hybrids

Ekaterina A. Gushcha, Institute of Cytology, St. Petersburg, Russia
Determination of chromosomal localization of the transcript of the centromeric DNA of the HSAT2 family in A549 cells and human mesenchymal stromal cells: in situ and in silico analysis

Mohamed Kader Haidara, Tomsk State University, Tomsk, Russia
Inversion polymorphism of natural populations of *Anopheles* malarian mosquitoes of the *Maculipennis* subgroup in Western Siberia in connection with infection with parasitic nematodes

Ekaterina S. Ivanova, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Comparative studies of X chromosomes in Cervidae family

Evelyn M. Kabirova, Institute of Cytology and Genetics, Novosibirsk, Russia

Relationship of gene regulation with 3D genome architecture in the mouse Kit/Kdr locus model

Kirill M. Kirilenko, Tomsk State University, Tomsk, Russia

Analysis of genomic landscapes in *Anopheles* mosquitoes

Viktor V. Konstantinov, Institute of Cytology and Genetics, Novosibirsk, Russia

Modeling of chromatin folding mechanisms in lampbrush chromosomes

Anastasiya G. Koroleva, Limnological Institute, Irkutsk, Russia

Acoustic stress changes telomere length dynamics and telomerase activity in *Danio rerio*

Maria M. Kulak, St. Petersburg State University, St. Petersburg, Russia

Telomere length in the chromosomes of the red-eared turtle *Trachemys scripta elegans*

Mariya A. Kusliy, Institute of Molecular and Cellular Biology, Novosibirsk, Russia

Genetic diversity of horses of the Sargarinsko-Alekseevsky culture of the Ob-Irtysh region of Western Siberia

Natalya A. Lemskaya, Institute of Molecular and Cellular Biology, Novosibirsk, Russia

Differential staining of heterochromatin by CDAG

Anna E. Letiagina, Institute of Molecular and Cellular Biology, Novosibirsk, Russia

Multiplex analysis of the effect of transcription termination on gene activity in eukaryotes

Lada S. Lisachova, Institute of Molecular and Cellular Biology, Novosibirsk, Russia

Evolution of satellite DNA in racerunners (*Eremias*, Lacertidae)

Svetlana A. Modina, Institute of Molecular and Cellular Biology, Novosibirsk, Russia

Phylogeography of the woolly mammoth (*Mammuthus primigenius*) in Eastern Siberia in the Late Pleistocene

Maria N. Molodova, Lomonosov Moscow State University, Moscow, Russia

The mechanisms of haemoglobin gene switching in *Danio rerio*

Anna S. Molodtseva, Institute of Molecular and Cellular Biology, Novosibirsk, Russia

Species identification of mammals accompanying humans at sites in the mountainous regions of Central Asia

Kirill V. Morozov, Skoltech, Moscow, Russia

Chromatin folding changes revealed in schizophrenia patients

Artem R. Nurislamov, Novosibirsk State University, Novosibirsk, Russia

CTCF and the evolution of the spatial organization of the genome

Yakov A. Osipov, Novosibirsk State University, Novosibirsk, Russia

Searching for potential functional state markers of cultured cells

Ilya A. Pletenev, Skolkovo Institute of Science and Technology, Moscow, Russia

Long-range interactions of chromatin in neurons of the cerebral cortex

Egor V. Panferov, St. Petersburg State University, St. Petersburg, Russia

rRNA genes in the zebra finch genome: organization of 5S rDNA

Andrey A. Popov, Institute of Cytology and Genetics, Novosibirsk, Russia

Expanding the list of sequence-agnostic enzymes for chromatin conformation capture assay with S1 nuclease

Ximena Soledad Calderon Rueda, National Research Tomsk State University, Tomsk, Russia

Cytogenetic markers for identification of polymorphic inversion karyotype in diploid cells of *Anopheles messeae* (Culicidae) malaria mosquito

Daria V. Rubtsova, Institute of Cytology and Genetics, Novosibirsk, Russia

Hybrid sterility in voles of the genus *Alexandromys*: what chromosomal polymorphism and heterozygosity for rearrangements are capable of

Pavel A. Salnikov, Novosibirsk State University, Novosibirsk, Russia

Tissue-specific relationship between chromatin spatial architecture and gene expression on the example of mouse *Slc29a3/Unc5b* locus

Maria V. Sharakhova, Virginia Polytechnic and State University, Blacksburg, USA
Chromosomal inversions in the arboviral vector *Aedes aegypti* are associated with epidemiologically important traits

Anastasia S. Shtompel, Lomonosov Moscow State University, Moscow, Russia
Reorganization of the spatial structure of the locus containing type I keratin genes during epidermal differentiation

Lev O. Sidelnikov, Novosibirsk State University, Novosibirsk, Russia
Search for markers of replicative potential of LF1 cells using cytologic methods

Tatyana V. Sizova, Koltzov Institute of Developmental Biology, Moscow, Russia
Lamin-B disruption and physiological aging lead to destabilization of telomeres and heterochromatin in *Drosophila* germ cells

Alexander V. Smirnov, Institute of Cytology and Genetics, Novosibirsk, Russia
A method for studying the role of SMC complexes in the repair of distant DNA double-strand breaks in mouse embryonic stem cells

Eugenia A. Tiukacheva, Lomonosov Moscow State University, Moscow, Russia
Development of a system for targeted editing of the 3D human genome

Avel V. Urin, Institute of Gene Biology, Moscow, Russia
New genomic data on the origin of the hybrid parthenogenetic lizard species *Darevskia unisexualis*

Yaroslav A. Utkin, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Genetic diversity of the Prussian carp (*Carassius gibelio*) of Siberia and the Far East.

Stanislav A. Vasilyev, National Research Tomsk State University, Tomsk, Russia
Large-scale methylation disorders against the background of aneuploidy in the human placenta

Oksana Yu. Vasilyeva, National Research Tomsk State University, Tomsk, Russia

Anomalous methylation of coiled artery remodeling genes in the background of aneuploidy in the human placenta

Aleksandra P. Yan, Novosibirsk State University, Novosibirsk, Russia
Detecting three-dimensional contacts of plasmid DNA with chromatin in HEK293T cells

Daniil A. Yukhtanov, Institute of Cytology and Genetics, Novosibirsk, Russia
Electron microscopic analysis of a unicellular eukaryote *Thraustochytrium aureum ssp. strugatskii* at different life cycle stages

Anastasia M. Yunusova, Institute of Cytology and Genetics, Novosibirsk, Russia
Investigation of the role of condensin complexes in maintaining the spatial structure of the mouse embryonic stem cell genome

Igor F. Zhimulev, Institute of Molecular and Cellular Biology, Novosibirsk, Russia
Characterization and localization of housekeeping and developmental genes in *Drosophila* polytene chromosomes

Alina A. Zhukova, Herzen State Pedagogical University, St. Petersburg, Russia
The rDNA sequence of the Japanese quail *de novo*

Организаторы



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Материалы

