



**The Sixth International Conference on
Bioinformatics of Genome Regulation
and Structure (BGRS'2008)**
Novosibirsk, Russia
June 22-28, 2008

CONFERENCE PROGRAM

- Sunday, June 22:** Registration from 11:00
Opening Ceremony at 14:00
- PLENAR SESSION 14:30-19:00
- Munday, June 23:** GENOMICS AND TRANSCRIPTOMICS
Tuesday, June 24: GENOMICS AND TRANSCRIPTOMICS
COMPUTATIONAL SYSTEMS BIOLOGY
PROTEOMICS
- Wednesday, June 25:** EVOLUTIONARY AND POPULATION COMPUTATIONAL
BIOLOGY
- INTELLIGENCE DATA ANALYSIS AND PATTERN
RECOGNITION IN
BIOINFORMATICS
- Thursday, June 26:** BIOINFORMATICS AND NEW PFARMACOLOGY
FIRST MICRO-SATELLITE SYMPOSIUM "GENETIC MODELS IN
POSTGENOMIC BIOLOGY"
COMPUTER ANALYSIS AND IMAGE RECOGNITION IN
SYSTEMS BIOLOGY
POSTER SESSION AND COMPUTER DEMONSTRATIONS
- Friday, June 27:** HIGH_PERFORMANCE COMPUTING IN BIOINFORMATICS
NANOBIOENGINEERING
MICROSYMPOSIUM "GENETIC COLLECTIONS AND
BIODIVERSITY OF CULTIVATED PLANTS: PRODUCING,
PRESERVATION AND CRYOCONSERVATION"
- Closing Ceremony at 18:00**

PLENAR SESSION

June 22, Sunday House of Scientists, Large Conference Hall

14:30-19:00

Co-chairpersons:

Prof. Ralf Hofstaedt, Bielefeld University, AG Bioinformatics, Bielefeld, Germany

Prof. Nikolay Kolchanov, Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia

No.	Author(s) and Title of Talk	Timeline
1.	Fyodor A. Kondrashov Department of Biological Science, University of California at San Diego, La Jolla, USA EVOLUTION OF COMPLEXITY IN EUKARYOTIC GENOMES	14:30- 15:10
2.	Igor B. Rogozin ^{1,2,*} , V.I. Glazko ³ , E.V. Koonin ¹ ¹ National Center for Biotechnology Information NLM, National Institutes of Health, Bethesda, USA; ² Institute of Cytology and Genetics SD RAS; Novosibirsk, Russia; ³ Timiriazev's State Agricultural University, Moscow, Russia HOMOPLASY IN GENOME-WIDE ANALYSIS OF RARE AMINO ACID REPLACEMENTS: THE MOLECULAR-EVOLUTIONARY BASIS FOR VAVILOV'S LAW OF HOMOLOGOUS SERIES	15:10- 15:50
3.	Wojciech Makalowski ^{1*} , V. Gotea ² ¹ Institute of Bioinformatics, University of Muenster, Muenster, Germany; ² National Center for Biotechnology Information, National Institutes of Health, Bethesda, USA GENOMIC SCRAPYARD OR HOW GENOMES UTILIZE ALL THAT JUNK	15:50- 16:30
<i>Coffee/tea break 16:30-17:00</i>		
4.	A. Fazel Famili Institute for Information Technology, National Research Council of Canada, Ottawa, Canada THE PARADIGM OF KNOWLEDGE DISCOVERY IN LIFE SCIENCES	17:00- 17:40
5.	Lev V. Belousov Moscow State University, Moscow, Russia A MORPHOMECHANICAL APPROACH TO DEVELOPMENT	17:40- 18:20
6.	Gennady N. Kulipanov Budker Institute of Nucleic Physics SB RAS, Novosibirsk, Russia SYNCHROTRON AND TERAHERTZ RADIATION IN LIFE SCIENCE	18:20- 19:00

ORAL PRESENTATIONS

Dear speakers, please, plan your presentation time including 5 minutes for questions.

Only PowerPoint presentations made in Microsoft Office 2003, XP or earlier versions can be accepted. Use embedded pictures and animations only; picture and animation links to the Internet or to other files will not be accessible.

Slide projectors or overhead projectors are NOT available during the BGRS'2008 Conference.

Please, take into account that it will not be possible for you to load your presentation during the session by yourselves. Presentations are loaded on the main computer by the technician of the Organizing Committee only.

To ensure that the presentations are well prepared and compatible with the main presentation computer, we strongly advise you to bring your materials as PowerPoint files on USB device or CD disk to the Room no. 200 at the House of Scientists and check the presentation with the technician of the Organizing Committee **not later than 30 min** before the start time of the session where you are presenting. This will prevent any confusion when loading the presentations on the main computer.

You may also bring your laptop for copying your presentation to the main presentation computer. Use of your own laptop during your presentation is not recommended.

If you have any questions, please do not hesitate to contact the Organizing Committee in Room no. 200 at the House of Scientists.

June 23, Monday

House of Scientists, Small Conference Hall

Morning Session

9:30-12:25

GENOMICS AND TRANSCRIPTOMICS

Co-chairperson:

Dr. Igor Rogozin, National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, USA

LANGUAGE OF DNA		
No.	Author(s) and Title of Talk	Timeline
1.	R. Hofestädt Bielefeld University, Germany DNA – THE PROGRAMMING LANGUAGE OF LIFE? KEYNOTE TALK	9:30- 10:00
2.	Y.L. Orlov* , M. Huss, V.B. Vega, N.D. Clarke Genome Institute of Singapore, Singapore STATISTICAL ISSUES IN GENOME-WIDE TRANSCRIPTION FACTOR BINDING SITES ANALYSIS BASED ON CHROMATIN IP (ChIP-seq)	10:00- 10:25
3.	I.V. Kulakovskiy^{1,2*} , A.V. Favorov ^{2,3} , V.J. Makeev ^{1,2} ¹ Engelhardt Institute of Molecular Biology, RAS, Moscow, Russia; ² Institute of Genetics and Selection of Industrial Microorganisms, FGUP GosNIIGenetika, Moscow, Russia; ³ The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, USA INCORPORATING DIFFERENT TYPES OF EXPERIMENTAL DATA ON DNA-PROTEIN BINDING INTO THE SINGLE <i>IN SILICO</i> MODEL	10:25- 10:50
Coffee/tea break 10:50-11:10		
4.	P.M. Ponomarenko ¹ , L.K. Savinkova ² , I.A. Drachkova ² , M.V. Lysova ² , T.V. Arshinova ² , M.P. Ponomarenko^{2*} , N.A. Kolchanov ^{1,2} ¹ Novosibirsk State University, Novosibirsk, Russia. ² Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia THE PRECISE EQUILIBRIUM EQUATION OF TBP/TATA-BINDING PREDICTS HUMAN FAMILIAL DISEASES UPON MUTATIONS	11:10- 11:35
5.	T. Subkhankulova , C. Leung, S. Marino Institute of Cell and Molecular Science, Barts and the London, Queen Mary School of Medicine and Dentistry, London, UK BMI-1 CONTROLS MANY TRANSCRIPTIONAL REGULATORS INVOLVED IN NEUROGENESIS OF THE MAMMALIAN BRAIN DURING NORMAL DEVELOPMENT	11:35- 12:00
6.	V.G. Levitsky* , O.A. Podkolodnaya, E.V. Ignatieva, E.A. Ananko Institute of Cytology and Genetics SB RAS NUCLEOSOME FORMATION POTENTIAL ESTIMATION VIA DINUCLEOTIDE PERIODICITY PREFERENCES	12:00- 12:25

12:30-14:00 Lunch break

June 23, Monday

House of Scientists, Small Conference Hall

Evening Session

14:00-17:05

GENOMICS AND TRANSCRIPTOMICS

Co-chairpersons:

Dr. Igor Rogozin, National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, USA

Dr. Wojciech Makalowski, Institute of Bioinformatics, University of Muenster, Muenster, Germany

GENE EXPRESSION		
No.	Author(s) and Title of Talk	Timeline
1.	Y. Moshkin ¹ , T.W. Kan ¹ , H. Goodfellow ² , J. Secombe ³ , R.N. Eisenman ³ , S.J. Bray ² and C.P. Verrijzer ¹ ¹ Erasmus University Medical Center, Rotterdam, the Netherlands; ² University of Cambridge, Cambridge, UK; ³ Fred Hutchinson Cancer Research Center, Seattle, USA ASF1 FACILITATES H3K4 DEMETHYLATION BY A NOVEL COMPLEX SPEL IN GENE REPRESSION KEYNOTE TALK	14:00-14:30
2.	A.A. Belostotsky ¹ , V.A. Boeva ² , E.O. Ermakova ³ , A.V. Favorov ¹ , M.V. Fridman ¹ , A. Heinzl ^{1,4} , I.V. Kulakovskiy ^{1,5} , V.J. Makeev ^{1,5,*} , D.B. Malko ¹ , Y.A. Medvedeva ¹ , N.J. Oparina ⁵ ¹ State Research Institute of Genetics and Selection of Industrial Microorganisms, GosNIIGenetika, Moscow, Russia; ² Ecole Polytechnique, Palaiseau Cedex, France; ³ Institute for Information Transmission Problems (The Kharkevich Institute), RAS, Moscow, Russia; ⁴ The University of Hagenberg, Hagenberg, Austria; ⁵ Engelhardt Institute of Molecular Biology RASciences, Moscow, Russia INTEGRATION OF GENOME, TRANSCRIPTOME AND REGULATORY INFORMATION FOR FUNCTIONAL GENOMICS OF EUKARYOTES	14:30-14:55
3.	A.V. Ratushny , S.A. Ramsey, O. Roda, J.J. Smith, J.D. Aitchison* Institute for Systems Biology, Seattle, USA EXPERIMENTAL AND THEORETICAL ANALYSIS OF FATTY ACID RESPONSIVE GENE REGULATORY NETWORK IN YEAST	14:55-15:20
Coffee/tea break 15:20-15:50		
4.	Yu.V. Kondrakhin ^{1,2} , R.N. Sharipov ^{1,2,3} , F.A. Kolpakov ^{1,2,*} ¹ Institute of Systems Biology, Novosibirsk, Russia; ² Design Technological Institute of Digital Techniques SB RAS, Novosibirsk, Russia; ³ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; COMPARISON OF BREAST CANCER AND COMMON CANCER ON THE BASE OF META-ANALYSIS OF MICROARRAY DATA	15:50-16:15
5.	V.A. Kuznetsov* , E. Motakis Bioinformatics Institute, Singapore SURVIVAL SIGNIFICANT AND LOW-DIMENSION GENE SIGNATURES OF BREAST CANCER	16:15-16:40
6.	N. Turenne INRA, Unité Mathématique Informatique et Génome, Jouy-en-Josas, France	16:40-17:05

A COMBINATORICS-BASED DATA-MINING APPROACH TO TIME-SERIES MICROARRAY ALIGNMENT

June 24, Tuesday House of Scientists, Small Conference Hall

Morning Session
9:30-12:30

GENOMICS AND TRANSCRIPTOMICS

Co-chairpersons:

Dr. Igor Rogozin, National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, USA

Dr. Ralf Hofstaedt, Bielefeld University, AG Bioinformatics, Bielefeld, Germany

TRANSCRIPTOMICS		
No.	Author(s) and Title of Talk	Timeline
1.	X. Roca, A.R. Krainer, R. Sachidanandam* Cold Spring Harbor Laboratory, Cold Spring Harbor, NY 11724, USA SPLICE SITE VARIATIONS IN HUMAN DISORDERS KEYNOTE TALK	9:30- 10:00
2.	D.D. Pervouchine ¹ , V.A. Raker ² , M.S. Gelfand ^{1,3} , A.A. Mironov^{1*} ¹ Moscow State University, Moscow, Russia ² Centre de Regulacio Genomica, Barcelona, Spain ³ Institute for Information Transmission problems RAS, Russia ASSOCIATION OF RNA STRUCTURES AND SPLICING	10:00- 10:25
3.	D.A. Maximov, V.N. Babenko* Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia INTRON LANDSCAPE OF HUMAN GENOME	10:20- 10:50
<i>Coffee/tea break 10:50-11:15</i>		
4.	N.N. Kolesnikov* , E.A. Elisafenko Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia X-CHROMOSOME INACTIVATION, MOBILE ELEMENTS AND ncRNA GENES	11:15- 11:40
5.	I. Makalowska^{1,2*} , C-F. Lin ³ ¹ Institute of Molecular Biology and Biotechnology, Adam Mickiewicz University, Poznan, Poland; ² Center for Computational Genomics, Huck Institutes of Life Sciences, Pennsylvania State University, University Park, USA; ³ Institute of Bioinformatics, University of Muenster, Muenster, Germany EVOLUTION OF ANTISENSE TRANSCRIPTS IN VERTEBRATE GENOMES	11:40- 12:05
6.	E. Berezikov , E. Cuppen Hubrecht Institute, Utrecht, The Netherlands; InteRNA Genomics B.V., Bilthoven, The Netherlands. COMPUTATIONAL PIPELINE FOR SMALL RNA DISCOVERY AND EXPRESSION PROFILING BY NEXT GENERATION SEQUENCING	12:05- 12:30

12:30-14:00 Lunch break

June 24, Tuesday House of Scientists, Small Conference Hall

Evening Session
14:00-17:20

COMPUTATIONAL SYSTEMS BIOLOGY

Co-chairpersons:

Dr. Maria Samsonova, St. Petersburg State Polytechnical University, St.
Petersburg, Russia

Prof. Lev Belousov, Moscow State University, Moscow, Russia

No.	Author(s) and Title of Talk	Timeline
1.	*S. Surkova ¹ , Manu ² ¹ St. Petersburg State Polytechnical University, Russia ² Stony Brook University, Stony Brook, NY, U.S.A. QUANTITATIVE STUDY OF SEGMENTATION GENE EXPRESSION IN DROSOPHILA HOMOZYGOUS KR MUTANTS	14:00- 14:25
2.	I.R. Akberdin ^{1,*} , N.A. Omelyanchuk ¹ , S.I. Fadeev ^{2,3} , V.M. Efimov ^{1,3} , I.A. Gainova ² , V.A. Likhoshvai ^{1,3} ¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ² Institute of Mathematics, SB RAS, Novosibirsk, Russia; ³ Novosibirsk State University, Novosibirsk, Russia MATHEMATICAL MODELLING OF REGULATION OF THE SHOOT APICAL MERISTEM DEVELOPMENT OF <i>ARABIDOPSIS THALIANA</i>	14:25- 14:50
3.	O.Krebs *, U. Wittig, R. Kania, A. Weidemann, S. Mir, M. Golebiewski, I. Rojas EML Research gGmbH, Heidelberg, Germany SABIO-RK: INTEGRATING REACTION KINETICS DATA FOR SYSTEMS BIOLOGY	14:50- 15:15
4.	M. Samsonova ¹ , Manu ² , S. Surkova ^{1*} , J. Reinitz ² ¹ St. Petersburg State Polytechnical University, St. Petersburg, Russia; ² Stony Brook University, Stony Brook, USA CANALIZATION OF GENE EXPRESSION IN THE DROSOPHILA BLASTODERM	15:15- 15:40
5.	V. G. Cherdantsev, V.A. Skobeeva * Moscow State University, Moscow, Russia THE WITHIN-INDIVIDUAL BASIS OF BETWEEN-INDIVIDUAL DIFFERENCES	15:40- 16:05
Coffee/tea break 16:05-16:30		
6.	Radulescu O. ¹ , Zinovyev A. ^{2,3*} , Lilienbaum A. ⁴ ¹ University of Rennes, CNRS UMR 6025, Rennes, France; ² Institut Curie, Paris, France; ³ Institute of Computational Modeling SB RAS, Krasnoyarsk; ⁴ CNRS URA 2115, Faculté de Médecine Pitié-Salpêtrière, Paris, France METHOD FOR COMPLEXITY REDUCTION AND MODEL COMPARISON WITH APPLICATION TO NFκB SIGNALLING	16:30- 16:55
7.	V.V. Mironova ^{1*} , N.A. Omelyanchuk ¹ , S.I. Fadeev ^{2,4} , V.V. Kogai ² , G. Yosiphon ³ , E. Mjolsness ³ , V.A. Likhoshvai ^{1,4} ¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ² Institute of Mathematics SB RAS, Novosibirsk, Russia; ³ Institute of Genomics and Bioinformatics, University of California, Irvine, USA;	16:55- 17:20

⁴Novosibirsk State University, Novosibirsk, Russia
AUXIN REGULATION OF ITS OWN TRANSPORT DETERMINES THE
ROOT TIP STRUCTURE IN PLANTS

June 24, Tuesday House of Scientists, Music Salon (room no.220)

Evening Session
14:00-17:30

PROTEOMICS

Chairperson:

Prof. Alexei Ivanov, V.N. Orekhovich Institute of Biomedical Chemistry RAMS,
Moscow, Russia

No.	Author(s) and Title of Talk	Timeline
1.	A.S. Ivanov* , A.A. Molnar, Yu.V. Mezentsev, P.V. Ershov, O.V. Gnedenko, A.I. Archakov V.N. Orekhovich Institute of Biomedical Chemistry RAMS, Moscow, Russia MOLECULAR RECOGNITION IN OLIGOMERIC ENZYMES: SUBUNITS AND INHIBITORS INTERACTION	14:00 – 14:25
2.	M.R. Gainullin^{1,3*} , A.L. Chernorudskiy ¹ , V.A. Kovalyov ³ , E.V. Eremin ² , M.E. Astashev ⁴ , A. Garcia ¹ ¹ Nizhny Novgorod State Medical Academy; ² Institute of Applied Physics RAS; ³ Nizhny Novgorod State University, Nizhny Novgorod, Russia; ⁴ Institute of Cell Biophysics RAS, Pushchino, Russia NEW COMPUTATIONAL RESOURCES FOR THE STUDIES OF THE UBIQUITIN SYSTEM	14:25 – 14:50
3.	A.Yu. Nyporko* , Ya.B. Blume Institute of Cell Biology and Genetic Engineering NAS of Ukraine, Kiev, Ukraine INFLUENCE OF AMINO ACID REPLACEMENTS ASSOCIATED WITH MULTIDRUG RESISTANCE ON β -TUBULIN MOLECULAR DYNAMICS	14:50- 15:10
4.	O. Zanegina^{1*} , E. Aksianov ² , A. Alexeevski ² , A. Karyagina ^{3,4} , S. Spirin ² ¹ Moscow State University, Moscow, Russia; ² Belozersky Institute, Moscow State University, Moscow Russia; ³ N.F. Gamaleya Research Institute of Epidemiology and Microbiology, Moscow, Russia; ⁴ Institute of Agricultural Biotechnology, Moscow, Russia DETECTING CONSERVED WATER MOLECULES IN PROTEIN-DNA COMPLEXES BY COMPARATIVE ANALYSIS OF X-RAY STRUCTURES	15:10- 15:30
Coffee/tea break 15:30-16:00		
5.	H.Singh ^{1,2} , K. Mizuguchi ^{1,2} , Sh. Ahmad^{1,2,*} ¹ Institute for Bioinformatics Research and Development, Japan Science and Technology Agency (JST), Japan; ² National Institute of Biomedical Innovation, Osaka, Japan PREDICTION OF LIPID SOLVENT ACCESSIBILITY OF TRANSMEMBRANE SEGMENTS IN PROTEINS	16:00- 16:30
6.	O.P. Lukashevich* , A.A. Gilep, S.A. Usanov Institute of Bioorganic Chemistry of the National Academy of Sciences of Belarus, Minsk, Belarus. MOLECULAR MODEL OF TERTIARY STRUCTURE FOR HUMAN FULL-LENGTH CYTOCHROME P45017 α	16:30- 16:50
7.	I.V. Medvedeva* , V.A. Ivanisenko	16:50- 17:10

Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia
PROTEIN FUNCTIONAL SITES PROJECTION ON EXON STRUCTURE
OF GENE

8. **P.E. Volynsky***, D.E. Nolde, R.G. Efremov
Institute of Bioorganic Chemistry RAS, Moscow, Russia 17:10-
PREDICTION OF SPATIAL STRUCTURE OF TRANSMEMBRANE 17:30
HELICAL DIMERS USING MOLECULAR MODELING TECHNIQUES
-

June 25, Wednesday House of Scientists, Small Conference Hall

Morning Session
9:30-12:35

EVOLUTIONARY COMPUTATIONAL BIOLOGY

Chairperson:

Dr. Fyodor Kondrashov, University of California at San Diego, La Jolla, USA

No.	Author(s) and Title of Talk	Timeline
1.	K.Yu. Popadin Institute for Information Transmission Problems RAS, Moscow, Russia TRNA'S FREE ENERGY AND EVOLUTION OF MITOCHONDRIAL GENOME	9:30- 9:55
2.	I.I. Titov ^{1,2} * ¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ² Novosibirsk State University, Novosibirsk, Russia NUCLEOTIDE ASSYMETRY IN STRUCTURAL RNAS: EVIDENCE OF C→U DIRECTINAL CHANGE IN TRNAS	9:55- 10:20
3.	H. Innan * Graduate University for Advanced Studies, Hayama, Japan COEVOLUTION OF DUPLICATED GENES KEYNOTE TALK	10:20- 10:50
<i>Coffee/tea break 10:50-11:20</i>		
4.	I.I. Turnaev *, K.V. Gunbin, N.A. Kolchanov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia MOLECULAR EVOLUTION OF THE KEY REGULATORY GENES IN THE EUKARYOTIC CELL CYCLE GENE NETWORK	11:20- 11:45
5.	O. Novikova *, A. Blinov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia HORIZONTAL TRANSMISSION OF NON-LTR RETROTRANSPOSONS: ARTEFACT OR RARE EVENT?	11:45 - 12:10
6.	S.S. Pintus *, V.A. Ivanisenko Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia COEVOLUTION OF PROTEIN DOMAINS OF P53 AND MDM2 – KEY PROTEINS OF APOPTOSIS	12:10- 12:35

12:35-14:00 Lunch break

June 25, Wednesday House of Scientists, Small Conference Hall

Evening Session
14:00-17:10

POPULATION COMPUTATIONAL BIOLOGY

Co-chairpersons:

Prof. Lev Zhivotovsky, Institute of General Genetics RAS, Moscow, Russia;

Prof. Manfred Kayser, Erasmus University Medical Centre Rotterdam,
Rotterdam,
the Netherlands

No.	Author(s) and Title of Talk	Timeline
1.	M. Kayser Erasmus University Medical Centre Rotterdam, Rotterdam, the Netherlands GEOGRAPHIC STRUCTURE IN HUMAN POPULATION GENETIC DATA KEY TALK	14:00- 14:40
2.	T. M. Karafet ^{1,2*} , J.S. Lansing ^{1,2} , M. F. Hammer ^{1,2} ¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ² University of Arizona, Tucson, USA GENE MIGRATION AND WORD FLOW IN INDONESIA	14:40- 15:05
3.	I. Pertsovskaya ^{1*} , N. Oparina ² , D. Vinogradov ³ , A. Favorov ^{2,4} , A. Mironov ^{1,3} ¹ Moscow State University, Moscow, Russia; ² GosNIIGenetica, Moscow, Russia; ³ Institute for Informational Transmission Problems RAS, Moscow, Russia; ⁴ Sidney Kimmel Cancer Center at Johns Hopkins, Baltimore, MD, USA CPG ISLANDS EVOLUTION: CPG DINUCLEOTIDES DEATH AND BIRTH PROBABILITIES IN DIFFERENT GENOME REGIONS	15:05- 15:30
4.	E.Ya. Frisman ¹ , O.L. Zhdanova ^{2*} ¹ Complex Analysis of Regional Problems Institute FEB RAS, Birobidzhan, Russia; ² Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia EVOLUTIONARY TRANSITION TO COMPLICATED DYNAMICS OF TWO-AGED POPULATION'S NUMBER	15:30- 15:55
Coffee/tea break 15:55-16:20		
5.	K.V. Gunbin , P.B. Baryshev, D.A. Afonnikov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia THE MOLECULAR EVOLUTION OF THE PYROCOCCLUS GENOMES: A COMPUTER-ASSISTED STUDY	16:20- 16:45
6.	L.A. Zhivotovsky* , G.A. Rubtsova, T.V. Malinina, M.V. Shitova, T.A. Rakitskaya, V.D. Prokhorovskaya, and K.I. Afanasiev Institute of General Genetics RAS, Moscow, Russia MICROSATELLITE VARIATION IN CHUM SALMON <i>ONCORHYNCHUS KETA</i> WALBAUM	16:45- 17:10

June 25, Wednesday House of Scientists, Music Salon (room no. 220)

Evening Session
14:00 -18:10

**INTELLIGENCE DATA ANALYSIS AND PATTERN RECOGNITION IN
BIOINFORMATICS**

Co-chairpersons:

Prof. A. Fazel Famili, NRC Institute for Information Technology, Ottawa,
Canada;

Prof. Mikhail Roytberg, Institute of Mathematical Problems in Biology RAS,
Pushchino, Moscow Region, Russia;

Dr. Evgenii Vityaev, Sobolev Institute of Mathematics SB RAS, Novosibirsk,
Russia

No.	Author(s) and Title of Talk	Timeline
1.	L. Guerra ¹ , S. González ¹ , V. Robles ¹ , J.M. Peña ¹ , F. Famili ² ¹ Universidad Politécnica de Madrid, Madrid, Spain; ² NRC Institute for Information Technology, Ottawa, Canada CLIDAPA: A NEW APPROACH FOR COMBINING CLINICAL DATA WITH GENES EXPRESSIONS	14:00- 14:20
2.	R. Malutan * ^{1,2} , P. Gomez Vilda ¹ , M. Borda ² ¹ Universidad Politecnica de Madrid, Boadilla del Monte, Spain ² Universitatea Technica Cluj Napoca, Cluj Napoca, Romania INDEPENDENT COMPONENT ANALYSIS ALGORITHMS FOR MICROARRAY DATA ANALYSIS	14:20- 14:40
3.	G. Beslon ¹ , Y. Sanchez-Dehesa ¹ , J.-M. Peña ² ¹ LIRIS Laboratory, INSA-Lyon, France ² DATSI Universidad Politecnica de Madrid, Spain MODELING EVOLUTION OF GENETIC REGULATION IN ARTIFICIAL ORGANISMS	14:40- 15:00
4.	I. Abnizova , N. Whiteford, T. Skelly, C. Brown Welcome Trust Sanger Institute, Hinxton, UK SUPERVISED LEARNING APPROACH TO IMPROVE ERROR PROBABILITIES FOR SHORT READ DNA SEQUENCING	15:00- 15:20
5.	Y. N. Shvarev ^{1,2} ¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ² Karolinska Institutet, Stockholm, Sweden IMAGING GENOMICS/GENETICS & TEMPORAL AND SPATIAL RESOLUTION IN BRAIN FUNCTION STUDIES	15:20- 15:40
6.	E. Furletova ¹ , G. Kucherov ² , L. Noe ² , M. Roytberg * ¹ , I. Tsitovich ³ ¹ Institute of Mathematical Problems of Biology RAS, Pushchino, Moscow Region, Russia; ² LIFL, Villeneuve d'Ascq, Cedex, France; ³ Institute for information transmission problems, Moscow, Russia TRANSITIVE SUBSET SEEDS FOR PROTEIN ALIGNMENT	15:40- 16:00
Coffee/tea break 16:00-16:20		
7.	Khin May Win, Nan Sai Moon Kham University of Computer Studies, Yangon, Myanmar FEATURE SUBSET SELECTION FOR CANCER CLASSIFICATION USING MAXIMIZED MARGIN OF SUPPORT VECTOR MACHINES	16:20- 16:40
8.	I.V. Khomicheva ^{1,2} , E.E. Vityaev ² , T.I. Shipilov ²	16:40-

	¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia;	17:00
	² Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia DISCOVERY OF THE TRANSCRIPTION FACTOR BINDING SITES IN THE ALIGNED AND UNALIGNED DNA SEQUENCES	
9.	E.E. Yarkova* , P.S. Demenkov, V.A. Ivanisenko Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; Novosibirsk State University, Novosibirsk, Russia; Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia	17:00- 17:20
	ANDCELL: A COMPUTER SYSTEM FOR AUTOMATED EXTRACTION OF KNOWLEDGE ABOUT MOLECULAR GENETIC INTERACTIONS AND REGULATIONS FROM PUBMED ABSTRACTS AND THEIR REPRESENTATION AS SEMANTIC ASSOCIATION NETWORKS	
10	V. Lyubetsky , L. Rubanov Institute for Informational Transmission Problems RAS, Moscow, Russia	17:20- 17:40
	TWO MODELS: ATTENUATION REGULATION AND ITS EVOLUTION IN BACTERIA	
11.	A. Fazel Famili NRC Institute for Information Technology, Ottawa, Canada	17:40- 18:10
	CURRENT TRENDS AND DIRECTIONS ON INTELLIGENT DATA ANALYSIS AND PATTERNS RECOGNITION KEY TALK	

June 26, Thursday House of Scientists, Small Conference Hall

Morning Session
9:30-13:00

BIOINFORMATICS AND NEW PHARMACOLOGY

Co-chairpersons:

Prof. Vladimir Poroikov, Institute of Biomedical Chemistry RAMS, Moscow, Russia;

Prof. Roman Efremov Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow, Russia

No.	Author(s) and Title of Talk	Timeline
1.	R.G. Efremov , D.E. Nolde, A.A. Polyansky, V.N. Novoseletsky, P.E. Volynsky Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow, Russia MODERN COMPUTATIONAL PHARMACOLOGY: MOVEMENT TOWARD BIOMEMBRANES	9:30-10:05
2.	Yu.N. Vorobjev Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia A NOVEL EXHAUSTIVE DOCKING METHOD COMBINING CAVE & GROOVE SEARCH WITH GLOBAL MOLECULAR DYNAMICS OPTIMIZATION	10:05-10:25
3.	P. Fedichev , A. Vinnik Quantum Pharmaceuticals, Moscow, Russia BIOLOGICAL SPECTRA ANALYSIS: LINKING BIOLOGICAL ACTIVITY TO ADMET PROFILES	10:25-10:45
<i>Coffee/tea break 10:45-11:15</i>		
4.	V.V. Poroikov Institute of Biomedical Chemistry RAMS, Moscow, Russia COMPUTER-AIDED PREDICTION OF BIOLOGICAL ACTIVITY SPECTRA FOR SUBSTANCES: VIRTUAL CHEMOGENOMICS	11:15-11:45
5.	Sandeep Kushwaha, Praveen Singh, Madhvi Shakya* , K.R. Pardasani Departments of Bioinformatics and Mathematics, MANIT Bhopal, India COMPUTATIONAL MODEL OF IMPROVING THE EFFICACY OF DUTASTERIDE DRUG	11:45-12:00
6.	E.L. Mishchenko ¹ , K.D. Bezmaternykh ¹ , V.A. Likhoshvai ^{1,2} , V.A. Ivanisenko ¹ , N.A. Kolchanov ^{1,2} ¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia ² Novosibirsk State University, Novosibirsk, Russia A MATHEMATICAL MODEL FOR THE SUPPRESSIVE EFFECT OF SUBGENOMIC HEPATITIS C VIRUS REPLICATION IN CELLS IN THE PRESENCE OF POTENTIAL INDIVIDUAL DRUGS OR THEIR COMBINATIONS	12:00-12:15
7.	F.A. Kolpakov ^{1,2,*} , V.V. Poroikov ³ , R.N. Sharipov ^{4,1,2} , L. Milanese ⁵ , A.E. Kel ⁶ ¹ Institute of Systems Biology, Novosibirsk, Russia; ² Design Technological Institute of Digital Techniques SB RAS, Novosibirsk, Russia; ³ Institute of Biomedical Chemistry RAMS, Moscow, Russia;	12:15-12:30

⁴Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia;

⁵Institute of Biomedical Technologies, CNR, Segrate (MI), Italy;

⁶BIOBASE GmbH, Wolfenbuettel, Germany

CYCLONET - AN INTEGRATED DATABASE ON CELL CYCLE
REGULATION AND CARCINOGENESIS

8. **A.O. Chugunov**, R.G. Efremov
M.M. Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic Chemistry
RAS, Moscow, Russia 12:30-
TRANSMEMBRANE DOMAINS OF PROTEINS AS PHARMACEUTICAL 12:45
TARGETS: KNOWLEDGE-BASED COMPUTATIONAL STRUCTURE
PREDICTION
-
9. **P. K. Vlasov**
Engelhardt Institute of Molecular Biology RAS, Moscow, Russia 12:45-
THE CATARACTOGENIC EFFECT OF MUTATIONS IN THE 13:00
CRYSTALLINES MAY BE COMPENSATED BY SUBSTITUTES IN A
SYMMETRIC DOMAIN
-

13:00-14:00 Lunch break

June 26, Thursday
220)

House of Scientists, Music Salon (room no.

Morning Session
9:30-13:30

FIRST MICRO-SATELLITE SYMPOSIUM “GENETIC MODELS IN POSTGENOMIC BIOLOGY”

Organizers of the Symposium:

Dr. M.P. Moshkin (Convener), **Dr. A.V. Amikishieva** (Secretary),
Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia

No.	Author(s) and Title of Talk	Timeline
1.	M.P. Moshkin Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia SIBERIAN CENTER OF GENETIC MODELS. OBJECTIVES, CURRENT STATUS AND PERSPECTIVES	9:30-9:55
2.	A. Yoshiki , F. Ike, N. Hiraiwa, H. Nakata, K. Mekada, Y. Kitaura, K. Mochida, M. Kadota, A. Murakami, M. Fujita, A. Ogura, K. Abe, S. Wakana, K. Moriwaki, Y. Obata RIKEN BioResource Center, Tsukuba Ibaraki, Japan DISTRIBUTION OF THE HIGHEST QUALITY MOUSE RESOURCES FROM RIKEN BIORESOURCE CENTER	9:55-10:20
3.	T.G. Tolstikova Novosibirsk Institute of Organic Chemistry, SB RAS, Novosibirsk, Russia VITAL EXPERIMENTS IN DEVELOPMENT OF NEW REMEDIES	10:20-10:45
<i>Coffee/tea break 10:45-11:00</i>		
4.	E.I. Solenov Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia PROGRESS IN METHODS OF PHYSIOLOGICAL INVESTIGATIONS ON ALIVE ANIMALS	11:00-11:25
5.	K. Mekada , A. Murakami, K. Abe, K. Moriwaki, Y. Obata, A. Yoshiki RIKEN BioResource Center, Tsukuba, Ibaraki, Japan GENETIC VARIATION OF MOUSE INBRED STRAINS	11:25-11:50
6.	A.V. Amikishieva Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia BEHAVIORAL PHENOTYPING: UP-TO-DATE METHODS AND EQUIPMENTS	11:50-12:15
	FINAL DISCUSSION on all spectrum of the questions connected with maintaining adequate biomodels and adequate conditions for multidisciplinary biomedical, biotechnological and pharmacological studies.	12:15-13:30

13:30-14:30 Lunch break

June 26, Thursday Institute of Cytology and Genetics, Conference Hall

Morning Session
9:30-13:00

COMPUTER ANALYSIS AND IMAGE RECOGNITION IN SYSTEMS BIOLOGY

Co-chairpersons:

Dr. Nikolay Rubtsov, Institute of Cytology and Genetics SB RAS, Novosibirsk,
Russia

Prof. Uwe Claussen, Institute of Human Genetics and Anthropology, Jena,
Germany

No.	Author(s) and Title of Talk	Timeline
1.	D. Ossipov , Olympus Life Science Europa GmbH, Hamburg, Germany FRONTIERS OF MODERN CONFOCAL MICROSCOPY	9:30- 10:15
2.	E.M Myasnikova* , S.Yu. Surkova, M.G. Samsonova St.Petersburg State Polytechnic University, St.Petersburg, Russia STATISTICAL ESTIMATION OF ERRORS IN GENE EXPRESSION DATA ARISING IN COURSE OF CONFOCAL SCANNING	10:15- 10:45
<i>Coffee/tea break 10:45-11:15</i>		
3.	U. Claussen Institute of Human Genetics and Anthropology, Jena, Germany CHROMOSOMICS, FROM NEW METHODS IN IMAGE ANALYSIS TO A NEW CHROMOSOME THEORY	11:15- 11:55
4.	N.B. Rubtsov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia PROBLEMS AND PERSPECTIVES OF IMAGE RECOGNITION AND ANALYSIS IN MODERN MICROSCOPY	11:55- 12:30
5.	B.G. Vainer* , A.S. Moskalev, A.F. Sapetina Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia COMPUTER-ASSISTED ANALYSIS OF SKIN THERMAL HETEROGENEITY IN HUMANS	12:30- 13:00

13:00-14:00 Lunch break

June 27, Friday

House of Scientists, Small Conference Hall

Morning Session
9:30-12:30

HIGH-PERFORMANCE COMPUTING IN BIOINFORMATICS

Chairperson:

Dr. Dmitry Afonnikov, Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia

No.	Author(s) and Title of Talk	Timeline
1.	A. A. Polyansky* , P.E. Volynsky, R.G. Efremov M.M. Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow, Russia MOSAIC NATURE OF THE WATER-LIPID INTERFACE AFFECTS A BEHAVIOR OF MEMBRANE-ACTIVE PEPTIDES	9:30-9:55
2.	A. Calabria, D. Di Pasquale, A. Orro, G. Trombetti, L. Milanesi Institute of Biomedical Technologies ITB-CNR, Milano, Italy GENETIC LINKAGE ANALYSIS CHALLENGES ON A DISTRIBUTED GRID ENVIRONMENTA	9:55- 10:20
3.	Yu.V. Vyatkin^{1,*} , K.V. Gunbin ¹ , A.V. Snytnikov ² , D.A. Afonnikov ^{1,3} ¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia ² Institute of Computational Mathematics and Mathematical Geophysics SB RAS, Novosibirsk, Russia ³ Novosibirsk State University, Novosibirsk, Russia THE PARALLELIZATION OF THE PLATO ALGORITHM FOR ANALYSIS OF THE ANOMALOUSLY EVOLVING GENE REGIONS	10:20- 10:45
Coffee/tea break 10:45-11:05		
4.	A. Slepuhin T-plaforms, Moscow, Russia T-PLATFORMS SOLUTIONS FOR HIGH PERFORMANCE COMPUTING RESEARCH AND EDUCATION	11:05- 11:30
5.	DISCUSSION: APPLICATION OF THE HIGH PERFORMANCE COMPUTING IN BIOINFORMATICS AND COMPUTATIONAL SYSTEMS BIOILGY	11:30- 12:30

12:30-14:00 Lunch break

June 27, Friday

House of Scientists, Small Conference Hall

Evening Session
14:00-16:45

NANOBIOENGINEERING

Chairpersons:

Prof. S. Lukaschuk, Hull Institute for Mathematical Science and Application,
The University of Hull, Hull, United Kingdom

Academician G.N. Kulipanov, Budker Institute of Nucleic Physics SB RAS,
Novosibirsk, Russia;

Academician V.V. Vlassov, Institute of Chemical Biology and Fundamental
Medicine SB RAS, Novosibirsk, Russia

No.	Author(s) and Title of Talk	Timeline
1.	S.E. Peltek ¹ , T.N. Goryachkovskaya ¹ , T.G. Dujak ¹ , V.A. Mordvinov ¹ , N.A. Kolchanov ¹ , V.M. Popik ² , M.A. Scheglov ² , A.S. Kozlov ³ , S.B. Malyshkin ³ , A.K. Petrov ³ ¹ Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ² Budker Institute of Nucleic Physics SB RAS, Novosibirsk, Russia; ³ Institute of Chemical Kinetics and Combustion SB RAS, Novosibirsk, Russia FEL RADIATION USE FOR LARGE BIOMACROMOLECULES ABLATION	14:00- 14:25
2.	Xiaolian Gao Department of Biology and Biochemistry, University of Houston, Houston, USA MICROFLUIDIC BIOCHIP (PICOARRAY) FOR NUCLEIC ACID AND PROTEIN ANALYSIS	14:20- 14:50
3.	S.Yu. Rakhmetova, A.S. Ivanov , S.P. Radko, O.V. Gnedenko, N.V. Bodoev, A.V. Veselovsky, D.S. Shcherbinin, A.I. Archakov Institute of Biomedical Chemistry RAMS, Moscow, Russia HETERODIMERIC CONSTRUCTS OF ANTI-THROMBIN APTAMERS AS MODEL BIORECOGNIZING ELEMENTS WITH ENHANCED AFFINITY FOR BIOSENSING	14:50- 15:15
4.	M.A. Zenkova , V.V. Vlassov Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia NANOCOMPLEXES OF MODIFIED OLIGONUCLEOTIDES AS A NEW APPROACH TO OLIGONUCLEOTIDE DELIVERY	15:15- 15:40
5.	V.A. Ivanisenko , P.S. Demenkov, E.E. Yarkova, N.V. Ivanisenko, T.V. Ivanisenko, N.Yu. Surnina, N.L. Podkolodny, T.M. Khlebodarova, S.S. Ibragimova, O.G. Smirnova Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia NANOBIOTECHNOLOGY AND ITS APPLICATION TO BIOMEDICINE: TEXT-MINING KNOWLEDGE EXTRACTION AND INTEGRATION	15:40- 16:05
Coffee/tea break 16:05-16:20		
6.	O.A. Vinogradova ^{1*} , A.A. Lomzov ^{1,2} , E.E. Rodyakina ³ , A.V. Latyshev ³ , D.V. Klinov ⁴ , D.V. Pyshnyi ^{1,2} ¹ Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia;	16:20- 16:45

²Novosibirsk State University, Novosibirsk, Russia;

³Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia;

⁴Institute of Bioorganic Chemistry, Moscow, Russia

MODIFIED DNA COMPLEXES AS BUILDING BLOCKS FOR
NANOBIOENGINEERING

June 27, Friday

Institute of Cytology and Genetics, Conference Hall

Morning Session

9:30-12:05

MICROSYMPOSIUM

**“GENETIC COLLECTIONS AND BIODIVERSITY OF CULTIVATED PLANTS:
PRODUCING, PRESERVATION AND CRYOCONSERVATION” (Conveners: Prof. N.
Watanabe and Dr. N.P. Goncharov)**

Co-chairpersons:

Prof. V.K. Shumny, Institute of Cytology and Genetics SB RAS, Novosibirsk,
Russia;

Prof. B.I. Ivanov, Institute for Biological problems of Cryolithozone, Yakutsk,
Russia

No.	Author(s) and Title of Talk	Timeline
1.	N.P. Goncharov* , V.K. Shumny Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia FROM PRODUCING GENETIC COLLECTION TO NATIONAL SYSTEM OF CRYOCONSERVATION	10:00- 10:25
2.	B.I. Ivanov* , R.V.Desyatkin, B.M.Kershengoltz, I.A.Fedorov Institute for Biological problems of Cryolithozone, Yakutsk, Russia EXPERIENCE ON SEED STORAGE OF DIFFERENT CROPS IN PERMAFROST THICKNESS	10:25- 10:50
3.	V.V. Alt* ¹ , P.L. Goncharov ² , N.A. Surin ³ ¹ Phisico-thekhnik Institute, Krasnoobsk, Russia ² Siberian Institute of Plant Industry and Breeding, Krasnoobsk, Russia ² Krasnoyarsk Institute of Agriculture, Krasnoyarsk, Russia SIBERIAN PLANT BREEDING CULTIVAR DATABASE	10:50- 11:15
4.	I.I. Gureyeva* Tomsk State University, Herbarium, Russia HERBARIUM AS THE INSTRUMENT FOR PHYTODIVERSITY COGNITION AND CONSERVATION	11:15- 11:40
5.	V.A. Morianina* , G.Ya. Stepanyuk, T.N. Belyaeva, T.P. Sviridova, V.P. Amelchenko . Siberian Botanical Garden of Tomsk State University, Russia CONSERVATION OF WORLD FLORA BIODIVERSITY IN SIBERIAN BOTANICAL GARDEN OF TOMS STATE UNIVERSITY	11:40- 12:05

12:05-14:00 Lunch break and POSTER SESSION

June 27, Friday

Institute of Cytology and Genetics, Conference Hall

Evening Session
14:00-18:10

MICROSYMPOSIUM

**“GENETIC COLLECTIONS AND BIODIVERSITY OF CULTIVATED PLANTS:
PRODUCING, PRESERVATION AND CRYOCONSERVATION” (Conveners: Prof. N.
Watanabe and Dr. N.P. Goncharov)**

Co-chairpersons:

Prof. V.V. Alt, Siberian Physic and Technic Institute of Agrarian Problem,
Krasnoobsk, Russia;

Prof. V.I. Glazko, Russian State Agricultural University - K.A.Timiryaze Moscow
Agricultural Academy

No.	Author(s) and Title of Talk	Timeline
1.	Yu. G. Sukhovey, A.M. Subbotin Tumen Scientific Center SB RAS, Tumen, Russia MODES OF STORAGE OF SELLS -PREDECESSORS AND THEIR INFLUENCE ON VECTOR OF DIFFERENTIATION	14:00- 14:20
2.	I.E. Likhenko* Siberian Institute of Plant Industry and Breeding, Krasnoobsk, Russia USING EARLY-RIPENING AND MIDLE-RIPENING CULTIVARS OF SPRING WHEAT IN RUSSIAN AGRICULTURE	14:20- 14:40
3.	V.I. Glazko* Russian State Agricultural University - K.A.Timiryaze Moscow Agricultural Academy, Moscow, Russia ESTIMATIONS OF POLYMORPHISM OF DIFFERENT GENOME ELEMENTS FOR CONTROLLING OF GENE POOLS OF CULTURAL PLANTS	14:40- 15:00
4.	E.A. Salina* Institute Cytology and Genetics , Novosibirsk, Russia DNA MARKERS IN GENOTYPING AND DEVELOPMENT OF WHEAT INTROGRESSION	15:00- 15:20
5.	V.I. Usenko* , I.P. Kalinina, V.V. Dolganova, O.V. Mochalova, I.A. Puchkin Lisavenko Institute of Horticulture of Siberia, Barnaul, Russia HORTICULTURAL GENE COLLECTION OF LISAVENKO INSTITUTE OF SIBERIAN HORTICULTURE AND PERSPECTIVES OF ITS USING	15:20- 15:40
6.	L.A. Pershina* Institute Cytology and Genetics, Novosibirsk, Russia THE NECESSITY OF MAINTENANCE OF <i>Hordeum</i> L. SPECIES GENOFOND	15:20- 16:00

Coffee/tea break 16:00-16:20

Co-chairpersons:

Dr. V.I. Usenko, Lisavenko Siberian Horticulture Institute, Barnaul, Russia;

Prof. I.I. Gureyeva, Tomsk State University, Tomsk, Russia

No.	Author(s) and Title of Talk	Timeline
7.	T.T. Efremova* , L.I.Laikova, V.S.Arbusova	16:20-

	Institute Cytology and Genetics, Novosibirsk, Russia PRESERVING GENETIC DIVERSITY ANEUPLOID AND SUBSTITUTION LINES AND THEIR USE IN RESEARCH COMMON WHEAT	16:40
8.	S.I. Neuymin* The Botanical Garden of Ural Department of Russian Academy of Science, Ekaterinburg, Russia USAGE OF THE LAW OF HOMOLOGOUS NUMBERS IN ANCESTRAL VARIABILITY N.I. VAVILOV AT CERTIFICATION OF AN INFRASPECIFIC DIVERSIFICATION	16:40- 17:00
9.	V.A. Sokolov* ¹ , T.K. Tarakanova ¹ , E.A. Abdyrakhmanova ¹ , A. Blackey ² ¹ Institute Cytology and Genetics, Novosibirsk, Russia ² Ball University, Indiana, USA LONG DISTANCE CROSSING AS SOURCE FOR INCREASING CORN BIODIVERSITY	17:00- 17:20
10.	A.V. Zheleznov* , N.B. Zheleznova, N.V. Burmaina Institute Cytology and Genetics, Novosibirsk, Russia PRODUCING, STUDYING AND USING FORAGE GRASS COLLECTION IN INSTITUTE OF CYTOLOGY AND GENETICS	17:20- 17:35
11.	S.F. Koval , V.S. Koval* Institute Cytology and Genetics, Novosibirsk, Russia NEAR-ISOGENIC LINES OF WHEAT. PRODUCING, CONSERVATION AND USING	17:35- 17:50

House of Scientists, Small Conference Hall

18:00-19:00 Closing Ceremony. Summaries from session chairpersons