

**RUSSIAN ACADEMY OF SCIENCES
SIBERIAN BRANCH**

**INSTITUTE OF CHEMICAL BIOLOGY AND
FUNDAMENTAL MEDICINE SB RAS**

**PROGRAM
OF THE INTERNATIONAL CONFERENCE
ON POSTGENOMIC TECHNOLOGY
FOR BIOMEDICINE**

**PTB'12
Novosibirsk, Russia
June 25–29, 2012**

**Novosibirsk
2012**

Date	Great Hall House of Scientists SB RAS	Small Hall House of Scientists SB RAS	Music Salon (room 220) of the House of Scientists SB RAS	Conference hall Inst Cytol@Genet SB RAS	Exhibition Centre SB RAS
June, 25 9-00- 13-00	Registration				
14-00- 19-00	Opening of the Conferences Plenary talks				
June, 26 9-00- 19-00	MICROSYMPOSIUM Computational and experimental genomics	SECTION Therapeutic proteins and nucleic acids			MICROSYMPOSIUM Skolkovo: biology and innovations
		13:00-14:00 Sponsor session (free lunch)			
	Poster session	Poster session			
June, 27 9-00- 13-00					SECTION Synthetic biology
14-00- 19-00	MICROSYMPOSIUM Computational and experimental proteomics	Section Bioinformatics and systems biology of gene expression regulation	13:00-14:00 Sponsor session (free lunch)		Section Computational inference of networks from high-throughput experimental data
	Poster session				
June, 28 9-00- 13-00		Section Gene function discovery and search for new pharmaceutical targets		MICROSYMPOSIUM Genetic diversity of laboratory animals in addressing fundamental and applied problems in postgenomic biology	SECTION Bionanotechnology for diagnosis and therapy
14-00- 19-00	MICROSYMPOSIUM Human genetics and personalized medicine: theoretical and experimental aspects	Section Evolutionary bioinformatics	Open seminar of German/Russian Virtual Network of Bioinformatics "Computational Systems Biology"		Poster session
June, 29 9-00- 13-00		Section Mathematical Biology and System Modeling			Section Supercomputer applications in bioinformatics
14-00 19-00		MICROSYMPOSIUM Human genetics and personalized medicine: theoretical and experimental aspects		Section Computer biology of development	Section Integrative Bioinformatics and Intelligent Knowledge Discovery/Management
		Poster session			

PLENARY SESSION

June 25, Monday *House of Scientists, Large Conference Hall*

13:20-19:00

Co-chairpersons:

Valentin Vlassov, Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.

Nikolay Kolchanov, Institute of Cytology and Genetics SB RAS, Novosibirsk.

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

No.	Author(s) and Title of Talk	Timeline
1.	THE FANTOM5 PROJECT – A PROMOTER LEVEL EXPRESSION ATLAS USING SINGLE MOLECULE SEQUENCING Alistair Forrest Unit Leader at RIKEN, Yokohama, Japan.	13:20- 14:00
2.	EPIGENETICS- NEW CHALLENGES Egor Prokhorchouk “Bioengineering” Center RAS, Moscow.	14:00- 14:40
3.	MECHANISMS OF ANTIGENS DEGRADATION Alexander Gabibov Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow.	14:40- 15:20
4.	TRANSLATIONAL NEUROBIOLOGY OF NEURODEGENERATIVE AND NEUROPSYCHIATRIC DISORDERS: TRANSGENIC RAT AND MOUSE MODELS FOR AD, PD, SCA17, AND HD Stephan von Hörsten Friedrich-Alexander-Universität Erlangen-Nürnberg.	15:20- 16:00
<i>Coffee/tea break 16:00-16:20</i>		
5.	REVERSE GENETICS IN BIOLOGICAL AND IMMUNOLOGICAL STUDIES Sergei Nedospasov Engelhardt Institute of Molecular Biology RAS. Lomonosov Moscow State University. German Rheumatism Research Center, a Leibniz Institute, Berlin, Germany.	16:20- 17:00
6.	ADVANCES OF SYSTEMS BIOLOGY IN TRANSLATIONAL RESEARCH AND PERSONALIZED MEDICINE Tatiana Nikolskaya CEO, Founder, RosGenDiagnostics, Moscow. CureMeDx, LLC, San Diego, USA.	17:00- 17:40
7.	COMPUTATIONAL ANALYSIS OF COMPLEX PHENOTYPES Andrey Rzhetsky University of Chicago, USA.	17:40- 18:20
8.	PERSPECTIVES OF NUCLEIC ACID BIOSENSORS FOR MEDICAL APPLICATIONS. ELECTRICALLY READABLE BIOCHIPS FOR RAPID RNA ANALYSIS Mathias Sprinzl University of Bayreuth, Germany.	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 PTB'12 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.

POSTER SESSION

Poster Size: The maximum size allowed for each poster is 0.7m wide × 1.2m high.
Please note that this is a portrait (vertical) poster.

Authors must bring their posters printed and ready, as no facilities to produce posters at the Conference are available. Organizers will provide boards and push pins to display your posters. Posters should be readable from a distance of about two to three feet—for easy reading by several people at one time.

The poster session and computer demonstration will be held during the whole conference since 26 till 29 June. The poster reports are subdivided into the groups according to the scientific sessions' schedule. The posters being presented during the subject scientific session shall be posted starting from 9:00 to 20:00 in the Small (or Large) Conference Hall Foyer.

From 18:30 to 20:00 presenters are expected to remain at their individual displays to be available for questions and informal discussion of the poster content.

Material should be removed soon after the ending of the poster session. In the case the author(s) does not take away the poster, it will be removed by the PTB'12 Organizing Committee.

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

MICROSYMPOSIUM “COMPUTATIONAL AND EXPERIMENTAL GENOMICS”

June 26, Tuesday

House of Scientists, Large Conference Hall

Co-chairpersons:

Victor Solovyev, University of London, UK.

Egor Prokhorchouk, “Bioengineering” Center RAS, Moscow.

No.	Author(s) and Title of Talk	Timeline
1.	COMPUTATIONAL TOOLS FOR ANALYSIS NEXT GENERATION SEQUENCING DATA Victor Solovyev University of London, UK. KEYNOTE TALK	9:30- 10:00
2.	SYSTEMATIC ERRORS AND BIASES IN ILLUMINA SEQUENCING Irina Abnizova Wellcome Trust Sanger Institute, Hinxton, UK. KEYNOTE TALK	10:00- 10:30
3.	POPULATION GENETIC ANALYSIS OF CASPIAN STURGEONS (ACIPENCER GUELLENSTAEDTII, ACIPENCER PERSICUS) USING NEXT GENERATION SEQUENCING AND CUSTOMIZED ILLUMINA GOLDENGATE GENOTYPING ASSAY Sergey Rastorguev National Research Centre "Kurchatov Institute", Moscow.	10:30- 10:50

Coffee/tea break 10:50-11:10

4.	SEARCHING FOR DISTANT HOMOLOGS OF SMALL, NON-CODING RNAs Robert Giegerich Center of Biotechnology and Faculty of Technology, Bielefeld University.	11:10- 11:35
5.	NOVEL APPROACHES TO RNA SEQUENCING Alexander Mazur ZAO “Genoanalytica”, Moscow.	11:35- 12:00
6.	DEEP SEQUENCING CHRYSANTHEMUM microRNA ON DIFFERENT STAGES OF PLANT DEVELOPMENT Artem Nedoluzhko National Research Centre "Kurchatov Institute" (NRC "Kurchatov Institute"), Moscow.	12:00- 12:25
7.	COMPUTATIONAL NEW SPLICE VARIANTS DISCOVERY USING SINGLE MOLECULE SEQUENCING TECHNOLOGY Yuri Vyatkin AcademGene LLC, Novosibirsk.	12:25- 12:50

12:50-14:00 Lunch break

9.	HIGH-THROUGHPUT SEQUENCING OF MYCOBACTERIUM STRAINS USED FOR STEROID COMPOUNDS BIOSYNTHESIS Eugeniy Bragin Innovative Technology Center “Biologically Active Compounds and Application”, Russian Academy of Sciences, Moscow. KEYNOTE TALK	14:00- 14:30
----	---	-----------------

10.	MASSIVE PARALLEL EXON SEQUENCING AS FUNDAMENTAL APPROACH IN STUDYING SNPS THAT CAN LEAD TO ALZHEIMER DISEASES Eugenia Boulygina National Research Center "Kurchatov Institute", Moscow. KEYNOTE TALK	14:30- 15:00
11.	LARGE-SCALE AMPLICON RE-SEQUENCING REVEALS NOVEL VARIANTS IN ALZHEIMER'S DISEASE GENES Olga Mikhaylichenko Vavilov Institute of General Genetics, Moscow.	15:00- 15:20

Coffee/tea break 15:20-15:50

12.	DE NOVO SEQUENCING, ASSEMBLY AND CHARACTERIZATION OF TRANSCRIPTOME IN TETRAPLOID PLANT CAPSELLA BURSA-PASTORIS Artem Kasianov Engelhardt Institute of Molecular Biology RAS, Moscow. Vavilov Institute of General Genetics RAS Moscow.	15:50- 16:15
13.	COMPARATIVE GENOME ANNOTATION OF TRYPANOSOMATIDS Sergey Pintus Virginia Commonwealth University, Center for the Study of Biological Complexity and the Department of Microbiology and Immunology, Richmond, USA.	16:15- 16:40
14.	A DRAFT GENOME SEQUENCE OF TARTARY BUCKWHEAT, FAGOPYRUM TATARICUM Maria Logacheva Belozersky Institute of Physico-Chemical Biology, Faculty of Bioengineering and Bioinformatics, M.V. Lomonosov Moscow State University. Kharkevich Institute for Information Transmission Problems RAS, Moscow.	16:40- 17:05
15.	SEMICONDUCTOR SEQUENCING FOR LIFE. Matthew Dyer Ion Torrent, part of Life Technologies, San Francisco, USA.	17:05- 17:25

POSTER SESSION

17:30-
19:00

POSTER PRESENTATIONS

V.S. Amstislavskiy, M. Sultan, K. Kim, S. Schrunner, H. Lehrach, M.-L. Yaspo
COVERAGE DEPTH ANALYSIS IN NEXT GENERATION SEQUENCING DATA

A.A. Arakelyan
PATHWAY SIGNAL FLOW ANALYSIS FOR HIGH-THROUGHPUT GENE EXPRESSION DATA

E.E. Astafieva, T.V. Karpushkina, K.A. Kulikova, T.T. Glazko
EVALUATION OF GENOMIC INSTABILITY IN SEVERAL SPECIES OF MAMMALS USING THE MICRONUCLEI TEST

D. N. Baryakin, D. V. Semenov, E. V. Brenner, A. M. Kurilshikov, V. V. Kozlov, Y. E. Narov, G. V. Vasiliev, L. A. Bryzgalov, E. D. Chikova, J. A. Filippova, E. V. Kuligina, V. A. Richter
SMALL NON-CODING RNAs OF HUMAN BLOOD PLASMA OF HEALTHY DONORS AND PATIENTS WITH NON-SMALL CELL LUNG CANCER.

E.A. Borzov, A.V. Marakhonov, A.V. Baranova, M.Yu. Skoblov
RANDTRAN: RANDOM TRANSCRIPTOME SEQUENCE GENERATOR

Eu.Yu.Bushmelev
POPULATION STUDY OF THE VARIATION IN TRIPLET DISTRIBUTIONS OBSERVED ALONGSIDE A CHROMOSOME, FOR YEAST SPECIES

V.N. Danilenko, E.U.Poluektova, K.M. Klimina, D.H. Kjasova, J.V.Chervinetz, D.B. Malko, V.J.Makeev, F. Gusev, T.V.Tyajelova, D.A. Reshetov, E.I.Rogaev
SEQUENCE AND ANNOTATION OF THE CHROMOSOME OF PROBIOTIC STRAIN LACTOBACILLUS RHAMNOSUS 24

A.P. Dovgerd, D.O. Zharkov
APPLICATION OF REPAIR ENZYMES TO IMPROVE THE QUALITY OF THE DNA TEMPLATE IN PCR AMPLIFICATION OF DEGRADED DNA.

Elkina M.A., Astafjeva E.E., Glazko T.T.
IRAP-PCR MARKERS AND MICRONUCLEI TEST IN THE CHARACTERIZATION OF GENETIC STRUCTURE OF THE KALMYK SHEEP AND TYPES OF THE EDILBAY SHEEP

A. Goodman, A. Montana, E. Neal, J. VanderKelen, M. Black, C. Kitts, A. Dekhtyar
DEVELOPMENT OF A NOVEL PYROSEQUENCING-BASED METHOD FOR STUDYING *E. COLI* DIVERSITY AND MICROBIAL SOURCE TRACKING.

E.V. Ignatieva, V.G. Levitsky, N.S. Yudin
ANALYSIS OF SNP DISTRIBUTION AND INTER-SNP DISTANCE IN THE HUMAN GENOME

A. Grigorenko, Y. Moliaka, I. Alexandrov, E. Rogaev.
SEARCH FOR FUNCTIONAL PATHWAYS FOR INTRAMEMBRANE ASPARTIC PROTEASE IMPAS1/SPP.

K.V. Krutovsky, E.A. Vaganov, I.V. Chubugina, N.V. Oreshkova, I. N. Tretyakova, T.V. Tyazhelova
COMPLEX GENOME SEQUENCING: PRELIMINARY DATA OF SIBERIAN LARCH COMPLETE GENOME SEQUENCING

V.G. Levitsky, A.V. Vershinin
THE ROLES OF THE MONOMER LENGTH AND NUCLEOTIDE CONTEXT OF PLANT TANDEM REPEATS IN NUCLEOSOME POSITIONING

M.L. Markelov, M.A. Gordukova, K.V. Kuleshov, V.G. Dedkov, M.V. A. Figueroa
DEVELOPMENT OF THE OPTIMAL ALGORITHM OF BACTERIAL WHOLE GENOME SEQUENCING ON MISEQ AND GS JUNIOR 454 SEQUENCERS/

Yu.G. Matushkin, V.G.Levitsky, Yu.L.Orlov, V.A.Likhoshvai
CORRELATION BETWEEN TRANSCRIPTION EFFICIENCY INITIATION AND TRANSLATION EFFICIENCY FOR SACCHAROMYCES CEREVISIAE AND SCHIZOSACCHAROMYCES POMBE

I. A. Novikov, M. Y. Fursov, I. E. Efremov
UGENE ASSEMBLY BROWSER: A TOOL FOR NGS DATA VISUALIZATION

A.A. Ponomaryova, E. Y. Rykova, N.V. Cherdyntseva, T.E. Skvortsova, A.Y. Dobrodeev, A.A. Zav'yalov, S.A. Tuzikov, V.V. Vlassov, P.P. Laktionov
EPIGENETIC STATUS AND QUATITATIVE CHARACTERISTICS OF CIRCULATING DNA IN LUNG CANCER

F. Pošćić, N. Khlopova
NEW ALGORITHM FOR IDENTIFICATION OF INDIVIDUAL DIFFERENCES IN GENE EXPRESSION

Yu. A. Putintseva
COMPARATIVE ANALYSIS OF TRIPLETS FREQUENCY IN MITOCHONDRIAL GENOMES

D.A. Reshetov, L.I. Shagam, T.V. Tyazhelova, A.P. Grigorenko, T.A. Andreeva, O.A. Mikhaylichenko, M.S. Protasova, A.Y. Goltsov, A.A. Zenin, F.E. Gusev, E.I. Rogaev
GENOME SEQUENCES OF CENTENARIANS PRODUCE A BASIS FOR GENOME SCALE LONGEVITY STUDIES

M.G. Sadovsky, E.M. Mirkes
INTRIGUING STRUCTURES IN TRIPLET DISTRIBUTION ALONGSIDE A GENOME

A. Samoshkin, S. Dulev, D. Loukinov, J.A. Rosenfeld, A. V. Strunnikov
A MAP OF ANAPHASE CHROMOSOMAL BREAKS INDUCED BY CONDENSIN LOSS

E.M. Sergeeva, D.A. Afonnikov, L.L. Bildanova, M.K. Koltunova, E.M. Timonova, E.A. Salina
TOWARDS AN ANALYSIS OF THE STRUCTURE OF THE SHORT ARM OF 5B CHROMOSOME OF THE BREAD WHEAT TRITICUM AESTIVUM L.

A. Sharma, L. Alomair, K. Doyle, M. Sikaroodi, A. Cherepanova, P. Laktionov, A. Birerdinc, P. Gillevet, A. Baranova
NEXTGEN SEQUENCING REVEALS EXTENSIVE RNA EDITING IN PLASMACYTOID DENDRITIC AND OTHER PRIMARY CELLS

P. Shelyakin, A. Kaznadzey
DIVERSION OF GENOME LOCI AND CO-LOCALIZATION PATTERNS STUDY OF THE PROTEIN FAMILIES FROM DIFFERENT FUNCTIONAL CLASSES OF THE BACTERIAL CARBOHYDRATE METABOLISM

N.N. Vtyurina, S.L. Grokhovsky, A.B. Vasiliev, I.I. Titov, P.M. Ponomarenko, M.P. Ponomarenko, S.E. Peltek, Yu.D. Nechipurenko, N.A. Kolchanov
CONTEXTUAL DNA FEATURES SIGNIFICANT FOR THE DNA DAMAGE BY THE 193 NM ULTRAVIOLET LASER BEAM

L.P. Zakharenko, T.P. Bak, O.M. Ignatenko
HOW LONG SEQUENCED GENOME CAN REMAIN STABLE

MICROSYMPOSIUM “COMPUTATIONAL AND EXPERIMENTAL GENOMICS”

June 27, Wednesday House of Scientists, Large Conference Hall

Co-chairpersons:

Egor Prokhorchouk, “Bioengineering” Center RAS, Moscow.

Victor Solovyev, University of London, UK.

No.	Author(s) and Title of Talk	Timeline
1.	ADVANCES IN GENOMIC AND METAGENOMIC STUDIES OF EXTREMOPHILIC MICROORGANISMS Nikolai Ravin Centre “Bioengineering” RAS, Moscow. KEYNOTE TALK	9:00- 9:40
2.	PROFILE OF THE CIRCULATING RNA IN APPARENTLY HEALTHY INDIVIDUALS AND NON-SMALL CELL LUNG CANCER PATIENTS OBTAINED WITH MASSIVELY PARALLEL SEQUENCING OF TOTAL BLOOD PLASMA RNA Dmitry Semenov Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	9:40- 10:00
3.	CIRCULATING DNA AN CANCER PATIENTS BLOOD: GENERAL CHARACTERISTICS AND WHOLE-GENOME ANALYSIS Elena Rykova Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	10:00- 10:20
4.	GENOME-WIDE ASSOCIATION STUDY OF CARDIOVASCULAR DISEASE RISK FACTORS IN THE MOSCOW STUDY OF THE WESTERN DISTRICT Alex Meshkov National Research Center for Preventive Medicine, Moscow.	10:20- 10:40
<i>Coffee/tea break 10:40-11:00</i>		
5.	A NEW APPROACH TO IDENTIFY THE RSNPS IN THE HUMAN GENOME BASED ON CHIP-SEQ DATA Leonid Bryzgalov Institute of Cytology and Genetics SB RAS, Novosibirsk.	11:00- 11:20
6.	BIOMARKER CHALLENGE: A CLOUD INSTEAD OF A SET OF THE VANTAGE POINTS Ancha Baranova Russian Center of Medical Genetics RAMS, Moscow School of Systems Biology, George Mason University, Fairfax, USA.	11:20- 11:40
7.	CURRENT APPLICATIONS AND FUTURE PERSPECTIVES OF 454 SEQUENCING Nadezhda Koroban Roche Diagnostics Rus LLC, Moscow.	11:40- 12:00
8.	TRANSFORMING QPCR: ENABLING EXPERIMENTS NOT ACHIEVABLE IN THE PAST Pavel Natalin Life Technology, Moscow.	12:00- 12:20

9.	ILLUMINA - REACHING NEW HORIZONS IN NEXT GENERATION SEQUENCING Nikolay Egorov InterLabService, Moscow.	12:20- 12:35
10.	REVIEW OF MODERN METHODS OF HIGH-PERFORMANCE SEQUENCING Vadim Zhernovkov Helicon, Moscow.	12:35- 12:50

MICROSYMPOSIUM “COMPUTATIONAL AND EXPERIMENTAL PROTEOMICS”

June 27, Wednesday House of Scientists, Large Conference Hall

Chairperson:

Vadim Govorun, Research Institute of Physico-Chemical Medicine, Moscow.

No.	Author(s) and Title of Talk	Timeline
1.	INTEGRATION OF –OMICS Vadim Govorun Research Institute of Physico-Chemical Medicine, Moscow.	14:00 – 14:30
2.	MASS-SPECTROMETRIC MEASUREMENT OF LEVELS AND ENZYMATIC ACTIVITY OF CYTOCHROMES P450 Victor Zgoda Institute of Biomedical Chemistry RAMS im.V.N.Orehovicha, Moscow.	14:30 – 14:50
3.	SYSTEM BIOLOGY ANALYSIS OF HELICOBACTER PYLORI VIRULENCE AND ADAPTATION BASED ON PROTEOGENOMIC, TRANSCRIPTOMIC AND METABOLOMIC ANALYSIS Dmitrii Alexeev Research Institute for Physico-Chemical Medicine, Moscow.	14:50- 15:10
4.	PROTEOMIC OF MYCOPLASMAS: NANOFORMING <i>Mycoplasma gallisepticum</i> Irina Demina Research Institute for Physical_Chemical Medicine, Moscow.	15:10 - 15:30
5.	DEEP METAGENOMICS AND METAPROTEOMICS OF HUMAN GUT: DRAMAS AND DELIGHTS Anna Popenko Research Institute of Physico-Chemical Medicine, Moscow.	15:30- 15:50
<i>Coffee/tea break 15:50-16:20</i>		
6.	STRUCTURAL AND FUNCTIONAL PROTEOMICS OF THE HUMAN PROTEIN SYNTHESIZING SYSTEM Dmitrii Graifer Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	16:20- 16:40
7.	SYSTEM ANALYSIS OF HUMAN CELL LINE: TRANSCRIPTOME, PROTEOME Sergei Moshkovskii Orehovich Institute of Biomedical Chemistry, Russian Academy of Medical Sciences, Moscow.	16:40- 17:00
8.	MASS-SPECTROMETRY-BASED IDENTIFICATION OF ENDOGENOUS PEPTIDES IN BLOOD SERUM Rustam Ziganshin Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow.	17:00- 17:20
9.	CHANGES IN PROTEIN COMPOSITION OF HUMAN URINE AFTER PROLONGED ORBITAL FLIGHTS Irina Larina Institute of Medicobiologic Problems Russian Federation State Scientific Research Center RAS, Moscow.	17:20- 17:40
10.	PROTEOMICS AND METABOLOMICS OF THE RAT LENS: ANALYSIS OF AGE AND CATARACT–SPECIFIC cataract-specific CHANGES Olga Snytnikova International Tomography Center SB RAS, Novosibirsk.	17:40- 18:00

11	MOSS PROTEOMICS AND PEPTIDOMICS. NEW INSIGHT IN THE OLD STORY. PEPTIDES IN THE STRESS ADAPTATION PROCESS Igor Fesenko Shemyakin-Ovchinnikov Institute of bioorganic chemistry RAS, Moscow.	18:00 – 18:20
----	--	------------------

POSTER SESSION

18:20-
19:30

POSTER PRESENTATIONS

D.V. Antonets, T.S. Nepomnyashchikh, S.N. Shchelkunov
 THEORETICAL STUDY OF STRUCTURAL FEATURES OF VARIOLA VIRUS CRMB PROTEIN

A.Bakulina, M.Merkulova, H. Hosokawa, P. Vinh Dip, G.Grüber, V. Marshansky
 MOLECULAR MODELING OF CYTOSOLIC PART OF $\alpha 2$ -SUBUNIT OF MOUSE V-ATPase

E.Barnaeva, R.B. Free, X.Hu, N.Southall, M. Bryant-Genevier, S. Titus, M.Ferrer, J.Marugan, D.R.Sibley
 HIGH-THROUGHPUT SCREENING FOR THE DEVELOPMENT OF NOVEL SELECTIVE LIGANDS OF D2 DOPAMINE RECEPTORS

A.O. Bragin, P.S. Demenkov, V.A. Ivanisenko
 APPLICATION OF CONFORMATIONAL PEPTIDES FOR ANALYSIS OF ALLERGENIC PROTEINS

A.L. Chernobrovkin, V.G. Zgoda, A.V. Lisitsa and A.I. Archakov
 COMPREHENSIVE ANALYSIS OF UNIDENTIFIED LC-MS FEATURES FOR INVESTIGATING PROTEINS DIVERSITY IN HIGH-THROUGHPUT PROTEOMICS EXPERIMENTS

O.M. Demchuk, P.A. Karpov, Ya.B. Blume
 MODELING OF PLANT KINESIN-8 MOTOR DOMAIN AND RECONSTRUCTION OF ITS L2 AND L11 LOOPS

D.M. Esyunina, N.A. Miropolskaya, L.S. Minakhin, A.V. Kulbachinskiy
 GP39, A NOVEL PHAGE-ENCODED INHIBITOR OF BACTERIAL RNA POLYMERASE

P.A. Karpov, A.V. Raevsky, Ya.A. Sheremet, Ya.B. Blume
 THE ROLE OF CASEIN KINASES 1 IN PLANT CYTOSKELETON REGULATION

M.S. Kondratyev, A.V. Kabanov, V.I. Novoselov, A.A. Samchenko, V.M. Komarov, N.N. Khechinashvili
 ALTERNATIVE HYDROGEN BONDING IN MOLECULAR DESIGN OF THERMOSTABLE ANTIOXIDANT PROTEIN

I.B. Kovalenko
 DIRECT COMPUTER SIMULATION OF PROTEIN-PROTEIN INTERACTION

H. M.Mahadeva Swamy, R.Asokan, Riaz Mahmood
 IN SILICO STRUCTURAL 3D MODELLING OF NOVEL CRYII AND CRY3A GENES FROM LOCAL ISOLATES OF BACILLUS THURINGIENSIS

A.A. Malygin, A.V. Ivanov, E.S. Babaylova, G.G.Karpova
 TOWARDS AN UNDERSTANDING OF THE ROLE OF HUMAN RIBOSOMAL PROTEINS IN VARIOUS CELLULAR PROCESSES RELATED TO HEALTH AND DISEASES

Mavropulo-Stolyarenko G.R.
 STATISTICAL ANALYSIS OF DATABASE DERIVED INTER-RESIDUE CONTACT POTENTIALS

K.E. Medvedev, D.A. Afonnikov, Y.N. Vorobjev
 MOLECULAR DYNAMICS SIMULATION OF NIP7 PROTEINS FROM HYPERTHERMOPHILIC ARCHAEA AT HIGH TEMPERATURE AND PRESSURE

L.Ph. Nizolenko, A.G. Bachinsky

PROF_PAT, THE DATABASE OF PROTEIN FAMILY PATTERNS – AN EFFECTIVE TOOL FOR SEQUENCES ANNOTATION

S.S. Pintus, M.S. Bady-Khoo, O.L. Posukh

COMPUTATIONAL EVALUATION OF IMPACT OF AMINO ACID SUBSTITUTION p.W172C ON STRUCTURE AND FUNCTION OF GAP-JUNCTION PROTEIN CONNEXIN 26 AND ITS ASSOCIATION WITH HEARING IMPAIRMENT

A.V. Popov, D.O. Zharkov, Yu.N. Vorobyov

INTEGRATED APPROACH TO MOLECULAR DYNAMICS STUDY OF PROTEINS AND PROTEIN-DNA COMPLEXES

U.V. Potapova, V.V. Potapov, I.G. Kondratov, D.V. Mukha, S.I. Feranchuk, G.N. Leonova, S.I. Belikov

NS2B/NS3 PROTEASE: ANALYSE OF ALLOSTERIC EFFECTS OF MUTATIONS ASSOCIATED WITH THE PATHOGENICITY OF TICK-BORNE ENCEPHALITIS VIRUS

Yu.A. Purtov, M.S. Kondratyev, O.N. Ozoline, V.M. Komarov

STUDY OF CONFORMATIONAL FLEXIBILITY OF *E.coli* RNA POLYMERASE ALPHA SUBUNIT INTERDOMAIN LINKER

G. Ramos-Echazábal, G. China, R. García-Fernández, T. Pons

IN SILICO STUDIES OF POTENTIAL PHOSPHORESIDUES IN THE HUMAN NUCLEOPHOSMIN/B23: ITS KINASES AND RELATED BIOLOGICAL PROCESSES

M.Skoblov, A.Marakhonov, A. Baranova

FAMILY OF KCTD PROTEINS: STRUCTURAL AND FUNCTIONAL PECULIARITIES

L.P. Smirnova, V.V. Koval, L.V. Loginova, O.S. Fedorova, S.A. Ivanova

SEARCH OF PLASMA PROTEIN BIOMARKERS FOR SCHIZOPHRENIA

B. Sobolev, N. Oparina, A. Veselovsky, D. Filimonov, V. Poroikov

LOOKING FOR MEANINGFUL SIGNS: THE EXPERIENCE WITH COMPARATIVE ANALYSIS OF NON-ALIGNED PROTEIN SEQUENCES

B. Sommer, Yan Zhou

THE VESICLE BUILDER – A PLUGIN FOR THE CELLMICROCOSMOS 2 MEMBRANEEDITOR

S.N. Tamkovich, T.G. Duzhak, A.V. Starikov, V.V. Vlassov, P.P. Laktionov

NOVEL APPROACH FOR IDENTIFICATION OF DNA-BINDING PROTEINS OF BLOOD CELL SURFACE

MICROSYMPOSIUM “COMPUTATIONAL AND EXPERIMENTAL PROTEOMICS”

June 28, Thursday House of Scientists, Large Conference Hall

Co-chairpersons:

Vladimir Sobolev Weizmann Institute of Science, Rehovot, Israel.

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

No.	Author(s) and Title of Talk	Timeline
1.	RESIDUES FORMING FUNCTIONAL SITES IN PROTEINS ARE DISPROPORTIONALLY ASSOCIATED WITH HUMAN DISEASE-RELATED SNPS: A CASE STUDY OF METAL BINDING SITES” Vladimir Sobolev Weizmann Institute of Science, Rehovot, Israel. KEYNOTE TALK	9:00- 9:35
2.	MOLECULAR MODELING OF NMDA RECEPTOR Vladimir Palyulin M.V. Lomonosov Moscow State University, Moscow..	9: 35- 9:55
3.	ARCHIP: DETECTOR OF ARCHITECTURES IN 3D PROTEIN STRUCTURES Evgeniy Aksianov M.V. Lomonosov Moscow State University, Moscow.	9:55- 10:15-
4.	PUTRACER: A NOVEL METHOD FOR IDENTIFICATION OF CONTINUOUS-DOMAINS IN MULTI-DOMAIN PROTEINS Mohammad bagher Parsa Institute for Research in Fundamental Sciences IPM / Tarbiat Modares University, Tehran, Iran.	10:15 – 10:35
5.	NEWEST BRUKER DALTONICS DEVELOPMENTS IN MASS-SPECTROMETRY Lyudmila Kopylova Bruker Daltonics, Novosibirsk.	10:35- 10:50
Coffee/tea break 10:50-11:10		
6.	PROTEIN-PROTEIN AND PROTEIN-MEMBRANE RECOGNITION: A COMPUTATIONAL VIEW Roman Efremov Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow. KEYNOTE TALK	11:10- 11:45
7.	COMPUTER SIMULATIONS OF PROTEIN AGGREGATION Phuong Nguyen Institute de Biologie Physico-Chimique, Paris, France.	11:45- 12:05
8.	GOLDEN TRIANGLE” FOR FOLDING RATES OF GLOBULAR PROTEINS? Sergiy Garbuzynskiy Institute of Protein Research RAS, Pushino.	12:05- 12:25
9.	PROTEIN FOLDING TURBULENCE Sergei Chekmarev Kutateladze Institute of Thermophysics SB RAS, Novosibirsk.	12:25 – 12:45
10.	MULTISTATE CONFIGURATION OF TRANSMEMBRANE PEPTIDE HELICAL DIMERS CONTROLLED BY THE HOST MEMBRANE Anton Polyansky Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow.	12:45 – 13:05
LUNCH BREAK		13:05- 14:00

MICROSYMPOSIUM “HUMAN GENETICS AND PERSONALIZED MEDICINE: THEORETICAL AND EXPERIMENTAL ASPECTS”

June 28, Thursday House of Scientists, Large Conference Hall

Co-chairpersons:

Alexander Kel, GeneXplain Inc., Germany.

Yury Aulchenko, Institute of Cytology and Genetics, Novosibirsk.

No.	Author(s) and Title of Talk	Timeline
1.	FAST SOLUTIONS FOR STATISTICAL GENOMICS THROUGH A DOMAIN-SPECIFIC COMPILER Diego Fabregat-Traver RWTH Aachen. KEYNOTE TALK	14:00 – 14:30
2.	APPLICATIONS OF MACHINE LEARNING TO PERSONALIZED MEDICINE Felix Agakov University of Edinburgh, UK. KEYNOTE TALK	14:30 – 15:00
3.	"GENETIC AND ENVIRONMENTAL FACTORS OF HEALTH OF HEALTHY PEOPLE: HOW TO FIND THEIR BY MEANS OF COMPUTATIONAL BIOLOGY METHODS?" Nikolay Yankovsky Vavilov Institute of General Genetics, Moscow. KEYNOTE TALK	15:00- 15:30
<i>Coffee/tea break 15:50-16:10</i>		
4.	CLOUD PERSONALIZED DRUG DISCOVERY Alexander Kel GeneXplain Inc., Germany.	16:10- 16:30
5.	COMPUTER METHODS FOR SEARCH OF DRUGS FOR PERSONALIZED THERAPY OF MULTIFACTORIAL DISEASES Vladimir Poroikov Biomedical Chemistry Institute RAMS.	16:30- 16:50
6.	<u>Software.</u> A SIMPLE PERSONAL GENOME VIEWER Anastasia Bakulina State Research Center of Virology and Biotechnology “Vector”, Koltsovo.	16:50- 17:00
7.	<u>Software.</u> DEVELOPMENT OF THE SOFTWARE COMPLEX “GENETICS” FOR SUPPORT INVESTIGATIONS IN MEDIC GENETICS Fedor Kolpakov Institute of Systems Biology, Ltd, Novosibirsk.	17:00- 17:10
8.	PREVENTING COMMON HEREDITARY DISORDERS THROUGH TIME- SEPARATED TWINNING Alexander Tchourbanov Beijing Institute of Genomics, Beijing, China.	17:10- 17:30

MICROSYMPOSIUM “HUMAN GENETICS AND PERSONALIZED MEDICINE: THEORETICAL AND EXPERIMENTAL ASPECTS”

June 29, Friday House of Scientists, Large Conference Hall

Co-chairpersons:

Mikhail Voevoda, Institute of Cytology and Genetics, Novosibirsk.

Maxim Filipenko, Institute of Chemical Biology and Fundamental Medicine, Novosibirsk.

Valery Puzyrev, Research Institute of Medical Genetics SB RAMS, Tomsk.

No.	Author(s) and Title of Talk	Timeline
1.	COMBINED GENOMICS AND GLYCOMICS APPROACH TO BIOMARKER DISCOVERY Lina Zgaga University of Zagreb, Zagreb, Croatia. KEYNOTE TALK	9:30-10:00
2.	GENETIC SUSCEPTIBILITY PROFILE FOR COMORBIDITY VARIANTS OF MULTIFACTORIAL DISEASES Valery Puzyrev Research Institute of Medical Genetics SB RAMS, Tomsk.	10:00-10:20
3.	PERSONALIZED GENOMIC MEDICINE AND MODERN INFORMATION TECHNOLOGIES Mikhail Voevoda Institute of Cytology and Genetics, Novosibirsk.	10:20-10:40
4.	MY EXOME Maxim Filipenko Institute of Chemical Biology and Fundamental Medicine, Novosibirsk.	10:40 – 11:00
5.	DROPLET DIGITAL PCR FOR PERSONALIZED MEDICINE Andrey Verner BioRad, Moscow.	11:00 – 11:15
<i>Coffee/tea break 11:15-11:40</i>		
6.	PERSONALIZED MEDICINE IN MONOGENIC PATHOLOGY Alexander Polyakov Research Center for Medical Genetic, Moscow.	11:40-12:10
7.	CIRCULATING microRNAs AS POTENTIAL BIOMARKERS OF LUNG CANCER Vasily Aushev Institute of Carcinogenesis of N.N. Blokhin Russian Oncological Science Center RAMS, Moscow.	12:10-12:30
8.	SELF-DESCRIPTIVENESS OF GWAS-IDENTIFIED GENETIC MARKERS OF COMMON DISEASES IN RUSSIAN POPULATION Vladimir Maksimov Institute of therapy, Novosibirsk.	12:30-12:50
9.	USING OF ACGH TECHNOLOGY IN PERSONALIZED MEDICINE Ludmila Filatova BioChimMak, Moscow.	12:50 – 13:05
<i>Lunch break</i>		
		13:05-14:10

MICROSYMPOSIUM “HUMAN GENETICS AND PERSONALIZED MEDICINE: THEORETICAL AND EXPERIMENTAL ASPECTS”

June 29, Friday House of Scientists, Small Conference Hall

Co-chairpersons:

Felix Agakov, University of Edinburgh, UK.

Evgeny Rogaev, Vavilov Institute of General Genetics, Moscow.

No.	Author(s) and Title of Talk	Timeline
1.	NEUROGENOMICS FOR BRAIN DEVELOPMENT AND DISORDERS Evgeny Rogaev Vavilov Institute of General Genetics, Moscow. KEYNOTE TALK	14:10- 14:40
2.	PREDICTING COMPLEX TRAITS USING GENOME-WIDE SNP DATA Felix Agakov University of Edinburgh, UK. KEYNOTE TALK	14:40- 15:10
3.	GENETIC BARCODE AS A PERSONAL IDENTIFIER OF EACH INDIVIDUAL Renat Garafutdinov Institute of Biochemistry and Genetics Ufa Science Centre RAS, Ufa.	15:10- 15:30
4.	MOLECULAR-GENETIC AND METABOLOMICS APPROACHES FOR ANTI-COAGULANT THERAPY Alexander Chernonosov Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	15:30- 15:50
5	PERSONALIZED MEDICINE: EXPECTATIONS, DISAPPOINTMENTS AND HOPES Vladislav Baranov St. Petersburg State University, St. Petersburg.	15:50- 16:10
6	THE REVIEW OF EXISTING SERVICES IN THE FIELD OF PERSONALIZED GENETICS Sergey Anashkin “Genoanalytica” JSC, Moscow.	16:10- 16:30
<i>Coffee/tea break 16:30-16:50</i>		
	Round Table “FUTURE OF PERSONALIZED GENETICS”	16:50- 17:30
	POSTER SESSION	17:30- 19:00

POSTER PRESENTATIONS

E.V. Antontseva, L.O. Bryzgalov, M.Yu. Matveeva, A.A. Ponomaryova, A.A. Ivanova, E.Y. Rykova, N.V. Cherdyntseva, T.I. Merkulova
MUTATIONS IN K-RAS AND EGFR GENES AND THE SEARCH FOR SNPS, ASSOCIATED WITH THEIR OCCURRENCE

N.S. Babayan, A.L. Gevorkyan, R.M. Aroutiounian, G.G. Hovhannisyan
THE COMET-FISH TECHNIQUE FOR MONITORING CANCER TREATMENT RESPONSE AT THE GENOMIC LEVEL

L.A. Belozertseva, E.N. Voronina, N.V. Koh, G.A. Cvetovskaya, G.I. Lifshic, M.L. Filipenko
STUDY OF INTERINDIVIDUAL VARIABILITY OF WARFARIN DOSAGE AMONG POPULATION OF THE WESTERN SIBERIAN REGION OF RUSSIA

A. A. Chernonosov, V. V. Koval, N. V. Kokh, G.A. Tsvetovskaya, G. I. Lifshits, O.S. Fedorova
CONTRIBUTION OF GENOTYPE VARIATION TO WARFARIN PHARMACOKINETICS

A.V. Endutkin, A.G. Derevyanko, D.O. Zharkov
BASE EXCISION REPAIR OF TRIPLET REPEAT SEQUENCES ASSOCIATED WITH NEURODEGENERATIVE DISORDERS

M.B. Freidin, A.V. Polonikov
VALIDATION OF THE *PPP1R12B* AS A CANDIDATE GENE FOR CHILDHOOD ASTHMA SUSCEPTIBILITY

A.F. Garaeva, A.A. Rudko, E.Yu. Bragina, N.P. Babushkina, M.B. Freidin.
IDENTIFICATION OF RARE VARIANTS AND POLYMORPHISMS OF THE *IL12RB1* GENE AND ANALYSIS OF THEIR ASSOCIATIONS WITH TUBERCULOSIS

D.S. Korobko, N.A. Malkova, E.A. Kudryavtseva, M.L. Filipenko
GENETICS AND DISEASE PROGRESSION OF FAMILIAL MULTIPLE SCLEROSIS IN NOVOSIBIRSK REGION OF RUSSIA

N.Yu. Knauer, E.V. Voronina, G.I. Lifshits
EXPERIENCE OF THE PERSONALIZED ANTIPLATELET THERAPY: THE EFFECTS OF CYP2C19 GENE

E.A. Kudryavtseva, A.S. Rozhdestvenskii, A.V. Kakulya, E.V. Khanokh, N.A. Malkova, D.S. Korobko, F.A. Platonov, E.G. Aref'eva, N.N. Zagorskaya, V.M. Alifirova, M.A. Titova, I.V. Smagina, S.A. El'chaninova, A.G. Zolovkina, V.P. Puzyrev, E.Y. Tsareva, O.O. Favorova, A.N. Boiko, M.L. Filipenko
IS THE ASSOCIATION BETWEEN -308G->A TNFA AND MULTIPLE SCLEROSIS INDEPENDENT OF HLA-DRB1*15?

E. V. Kulish, O. A. Makeeva, M. V. Golubenko, M. V. Zykov, V. V. Kashtalap.
ASSOCIATION OF *ITGB3* AND *GNB3* VARIANTS WITH THE DEVELOPMENT OF VASCULAR COMPLICATIONS IN PATIENTS WITH ACUTE CORONARY SYNDROME

E.V. Rudikov, V.A. Gavrilova, O.Y. Fedorenko, E.G. Boyarko, A.V. Semke, V.A. Sorokina, N.V. Govorin, S.A. Ivanova.
TARDIVE DISKINESIA AND POLYMORPHISM OF PHOSPHATIDYLINOSITOL- 4-PHOSPHATE 5-KINASE IIA GENE IN RUSSIAN SCHIZOPHRENIC PATIENTS

O.S. Shkoda, E.D.Chikova, N.V. Fomenko, P.P. Laktionov, E.Y.Rykova
CYTOKINE PROFILE AND CIRCULATING DNA IN THE BLOOD OF PATIENTS WITH TICK-BORNE BORRELIOSIS

Y.A. Tsepilov, J. Read, K. Strauch, T.I. Axenovich, Y.S. Aulchenko
DEVELOPMENT AND APPLICATION OF THE GENOMIC CONTROL METHODS FOR GENOME-WIDE ASSOCIATION ANALYSIS USING NON-ADDITIVE MODELS

R. V. Zakharyan, A.S. Boyajyan
NEW CANDIDATE GENES FOR SCHIZOPHRENIA DISORDER

SECTION: Therapeutic proteins and nucleic acids

June 26, Tuesday

House of Scientists, Small Conference Hall

Co-chairpersons:

Alexander Gabibov, Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow.

Vladimir Richter, Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.

No.	Author(s) and Title of Talk	Timeline
1	HYBRID CONSTRUCTIONS FOR DIAGNOSTICS AND THERAPY Sergey Deev Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow.	9:00 - 9:25
2	ZYBODIES: MULTI-SPECIFIC, ANTIBODY-BASED THERAPEUTICS Victor Roschke Zyngenia, Inc., Gaithersburg, USA.	9:25 - 9:50
3	PEPTIDE PHAGE LIBRARY FOR DIAGNOSTICS AND THERAPY Alexander Il'ichev State Research Center of Virology and Biotechnology "Vector" Novosibirsk.	9:50 - 10:15
4	BIENZYME NANOCONJUGATE FOR VASCULAR PROTECTION Alexander Maksimenko Institute of Experimental Cardiology, Russian Cardiology Research-and Production Complex, Moscow.	10:15 - 10:40

Coffee/tea break 10:40-11:10

5	CANCER CELLS TARGETING TOXICITY OF CROTAMINE, MILD TOXIN FROM BRAZILIAN RATTLESNAKE Irina Kerkis Laboratory of Genetics, Butantan Institute, San Paulo, Brazil.	11:10 - 11:35
6	MONOCLONAL ANTIBODIES AGAINST THE EXTRACELLULAR FRAGMENT OF CONNEXIN-43: A POTENTIAL ANTITUMOR ACTIVITY IN HIGH-GRADE GLIOMAS Gaukhar Yusubalieva The Russian National Research Medical University, Moscow.	11:35 - 12:00
7	PROSPECTS OF ANTICANCER THERAPY BY LACTAPTIN Vladimir Richter Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	12:00 - 12:25
8	CHIMERIC ANTIBODIES AGAINST TICK-BORNE ENCEPHALITIS VIRUS Artem Tikunov Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	12:25 - 12:50

Sponsor session

	SAMPLE PREPARATION INSTRUMENTS FOR SEQUENCING AND GENETIC RESEARCH Denis Dmitrienko Dia-m, Moscow.	13:00 - 13:30
	TOPIC WILL BE LATER Author Khimexpert company, Moscow.	13:30 - 14:00
9	NEW CONCEPT OF ANTI-CYTOKINE THERAPY Sergey Nedospasov Engelhardt Institute of Molecular Biology RAS, Moscow.	14:00 - 14:25

10	ARTIFICIAL POLY-CTL-EPITOPES DNA VACCINES Larisa Karpenko State Research Center of Virology and Biotechnology Vector, Koltsovo.	14:25 - 14:50
11	THE RESULTS OF THE GENE PRODUCT FOR THERAPEUTIC ANGIOGENESIS "NEOVASCULGEN" IN THE COMBINED THERAPY IN PATIENTS WITH CHRONIC ISCHEMIA OF LOWER EXTREMITIES Roman Deev Human Stem Cells Institute , Moscow.	14:50 - 15:15
12	MicroRNA IN METASTASES DEVELOPMENT Nadezhda Mironova Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	15:15 - 15:40
<i>Coffee/tea break 15:40-16:10</i>		
13	SMALL INTERFERING RNAS: PROSPECTS OF APPLICATIONS Elena Chernolovskaya Institute of chemical biology and fundamental medicine SB RAS, Novosibirsk.	16:10 - 16:35
14	TARGETING OF FUNCTIONALLY IMPORTANT SITES OF BACTERIAL RNA POLYMERASE BY SINGLE-STRANDED DNA APTAMERS Andrey Kulbachinskiy Institute of Molecular Genetics, Russian Academy of Sciences, Moscow.	16:35 - 17:00
15	INNOVATIONS IN CELL TECHNOLOGY. CULTIVATION AND VISUALISATION OF IN-CELL EVENTS Tamara Malygina Optec, Novosibirsk.	17:00 - 17:10
16	V3 WORKFLOW: FROM LOADING A GEL TO A READY BLOT MEMBRANE IN JUST 30 MINUTES Feodor Tereshchenko Bio-Rad, Moscow.	17:10 - 17:20

17:20 -
18:30

POSTER SESSION

POSTER PRESENTATIONS

Fomin A.S., Koval O.A., Semenov D.V., Kuligina E.V., Richter V.A.

HUMAN CANCER CELLS APOPTOSIS PATHWAY INDUCED BY RECOMBINANT ANALOG OF LACTAPTIN RL2

M.O. Potapenko, A.V. Saveleva, A.S. Fomin, D.V. Semenov, O.A. Koval, E.V. Kuligina, V.A. Richter

CHARACTERIZATION OF CYTOTOXIC FACTOR OF HUMAN MILK, LACTAPTINE, AND DESIGN OF ITS RECOMBINANT ANALOGUES

D. Pupov, D. Esyunina, A. Kulbachinskiy,

APTAMER-BASED METHODS FOR SCREENING AND CHARACTERIZATION OF NOVEL INHIBITORS OF BACTERIAL RNA POLYMERASE

A.V. Savelyeva, D.V. Semenov, O.A. Koval, I.V. Rabinov, E.V. Kuligina, V.A. Richter

TRANSFECTION OF HUMAN CELLS BY ARTIFICIAL RNA-NUCLEOPHOSMIN 1 COMPLEXES

G.A. Stepanov, D.V. Semenov, O.A. Koval, E.V. Kuligina, I.V. Rabinov, V.A. Richter

ARTIFICIAL BOX C/D RNAS AS GENE EXPRESSION MODULATORS

M.A. Tamarkin, G.S. Kachalova, A.V. Lipkin, V.O. Popov

"EXPRESSION AND ISOLATION OF THE PARKIN PROTEIN CONSTRUCT TV7 THAT DEFINES THE VIOLATION OF E3 LIGASE ACTIVITY IN HEREDITARY PARKINSON DISEASE"

A.A. Yarushkin, Y.A. Kazakova, V.O. Pustynyak

CONSTITUTIVE ANDROSTANE RECEPTOR (CAR): XENOSENSOR AND TARGET FOR THERAPY

MICROSYMPOSIUM: SKOLKOVO: BIOLOGY AND INNOVATIONS

June 26, Tuesday Exhibition Centre, Conference Hall

Chairperson:

Igor Goryanin, Innovation Center "SKOLKOVO"

The full program will be announced later.

No.	Author(s) and Title of Talk	Timeline
1.	KEYNOTE TALK	9:30- 10:00
2.		10:00- 10:25
3.		10:25- 10:50
<i>Coffee/tea break 10:50-11:10</i>		
4.	INTEGRATION OF GENOMICS RESEARCH AND NEXT GENERATION SEQUENCING TECHNOLOGIES IN UNDERGRADUATE CLASSROOMS Anya Goodman California Polytechnic State University, San Luis Obispo, USA.	11:10- 11:35
5.	REFORM OF BIOTECHNOLOGY EDUCATION IN RUSSIA: A EU TEMPUS PROJECT INVOLVING RAS, RUSSIAN AND EUROPEAN UNIVERSITIES Dmitry Zharkov Institute of Chemical Biology and Fundamental Medicine, SB RAS, Novosibirsk.	11:35- 12:00
6.		12:00- 12:25
7.		12:25- 12:50

12:30-14:00 Lunch break

June 26, Tuesday Exhibition Centre, Conference Hall

Evening Session
14:00-18:00

MICROSYMPOSIUM: SKOLKOVO: BIOLOGY AND INNOVATIONS

Chairperson:

Igor Goryanin, Innovation Center "SKOLKOVO".

SECTION: Synthetic Biology

June 27, Wednesday

Exhibition Centre SB RAS

Co-chairpersons:

Alex Borovkov, Synbuild, LLC, Tempe, USA.

Alexander Sinyakov, Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.

No.	Author(s) and Title of Talk	Timeline
1.	MELANOGENESIS HELPS HUMAN ADIPOSE TO WITHSTAND LOW-GRADE SYSTEMIC INFLAMMATION Ancha Baranova George Mason University, Fairfax, USA.	9:00-09:25
2.	STRUCTURE-FUNCTION STUDIES OF MODULAR, ACTIN-REGULATING PROTEINS BY HETERONUCLEAR ($^1\text{H}/^{15}\text{N}/^{13}\text{C}$) NMR Serge Smirnov Western Washington University, Bellingham, WA, USA.	9:25-9:50
3.	SYSTEM PROFILING (GENOMIC, TRANSCRIPTOMIC, METABOLOMIC) OF MYCOPLASMAS. NEW INSIGHTS ON MINIMAL STYLE OF LIFE Dmitry Alexeev Research Institute of Physico Chemical Medicine, Moscow.	9:50-10:15
<i>Coffee/tea break 10:15-10:45</i>		
4.	MULTIPLEX ASSEMBLY OF HIGH-FIDELITY DNA MOLECULES FROM COMPLEX MIXTURES OF SYNTHETIC OLIGONUCLEOTIDES Alex Borovkov Synbuild, LLC, Tempe, USA.	10:45-11:10
5.	MULTIPLEXED REGULATORY ELEMENT SYNTHESIS AND CHARACTERIZATION Sriram Kosuri Wyss Institute For Biologically Inspired Engineering, Harvard University, USA.	11:10-11:35
6.	DNA-MICROARRAY SYNTHESIZER Alexander Sinyakov Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	11:35-12:00

SECTION: Bionanotechnology for diagnosis and therapy

June 28, Thursday

Exhibition Centre SB RAS

Co-Chairpersons:

Dmitrii Pyshnyi, Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.

Dmitrii Stetsenko, Department of Chemistry, University of Reading, UK.

No.	Author(s) and Title of Talk	Timeline
1.	NEW ASPECTS OF OPTICAL METHODS FOR THE STUDY OF BLOOD IN DIAGNOSIS OF COLORECTAL CANCER Margarita Kruchinina Institute of Internal Medicine SB RAMS, Novosibirsk.	09:30- 09:55
2.	BASE EXCISION REPAIR ENZYMES AS INSTRUMENTS FOR POSTGENOMIC BIOTECHNOLOGY Dmitry Zharkov SB RAS Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	09:55- 10:20
3.	GOLD AND COMPOSITE NANOPARTICLES FOR BIOMEDICAL APPLICATIONS Boris Khlebtsov Institute of Biochemistry and Physiology of Plants and Microorganisms RAS, Saratov.	10:20- 10:45
<i>Coffee/tea break 10:45-11:15</i>		
4.	INORGANIC NANOPARTICLES AS DELIVERY VEHICLE FOR NUCLEIC ACIDS-BASED REAGENTS Valentina Zarytova Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	11:15- 11:45
5.	ANTIVIRAL ACTIVITY OF NANOBIOCOMPOSITES BASED ON PEPTIDE NUCLEIC ACIDS AND TITANIUM DIOXIDE NANOPARTICLES Nariman Amirkhanov Institute of chemical biology and fundamental medicine SB RAS, Novosibirsk. Novosibirsk State University.	11:45- 12:10
6.	PATHWAYS OF GOLD NANOPARTICLES INTERNALIZATION BY DIFFERENT TYPES OF EUKARYOTIC CELLS Elena Ryabchikova Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	12:10- 12:30
7.	BIOMOLECULE SPECIFIC MIPS ON THE BASIS OF SIMPLE NYLON-6 Elena Dmitrienko Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	12:30- 12:55

13:00-14:00 Lunch break

8.	NANOWIRES AS BIO - CHEMICAL SENSORS Olga Naumova Institute of Semiconductor Physics SB RAS, Novosibirsk.	14:00 – 14:30
9.	RUPTURE EVENT SCANNING FOR BIOLOGY AND MEDICINE Fedor Dultsev Institute of Semiconductor Physics SB RAS, Novosibirsk.	14:30 – 14:55
10.	FLUORESCENT PEG-MODIFIED SINGLE-WALLED CARBON NANOTUBES AS PLATFORM FOR THE CONSTRUCTION OF THERANOSTIC TOOLS Evgeny Apartsin Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	14:55 - 15:20

Coffee/tea break 15:20-15:40

11.	FLUORESCENT DNA PROBES: RECENT ADVANCES Vladimir Korshun Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow.	16:10- 16:30
12.	DESIGN OF MULTICOMPONENT CONCATAMER-LIKE DNA NANOSTRUCTURES Dmitrii Pyshnyi Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk.	16:30- 16:50
13.	DNA ARCHITECTONICS: VISION OF THE FUTURE Dmitry Stetsenko Department of Chemistry, University of Reading, UK.	16:50- 17:10
POSTER SESSION		17:10- 18:00

POSTER PRESENTATIONS

O.A. Krasheninina, D.S. Novopashina, A.G. Venyaminova
NEW PYRENE EXIMER OLIGO(2'-O-METHYL-RIBONUCLEOTIDE) PROBES FOR RNA DETECTION

R.N. Amirkhanov, N.V. Amirkhanov, V.F. Zarytova
IMMOBILIZATION OF PEPTIDE NUCLEIC ACIDS IN THE FORM OF HYBRID DNA/PNA DUPLEXES ON TiO₂ NANOPARTICLES COVERED WITH POLYCATIONS CONTAINING QUATERNARY AMINO GROUPS

N.S. Filippov, M.A. Paraschenko, N.V. Vandysheva, T.S. Vashutina, S.I. Romanov
ELECTROOSMOTIC PUMP BASED ON SILICON MICROCHANNEL MEMBRANE FOR BIOANALYTICAL PLATFORMS

M.S. Kupryushkin, D. V. Pyshnyi
PRACTICAL APPROACH FOR SYNTHESIS OF NON-NUCLEOTIDE PHOSPHORAMIDITE SYNTHONS WITH DESIRED FUNCTIONAL GROUPS CONNECTED BY ACHIRAL BACKBONE.

D.S. Naberezhnov, S.A. Sekerina, M.V. Monakhova, E.A. Romanova, E.A. Kubareva, T.S. Oretskaya
SYNTHESIS AND PROPERTIES OF MODIFIED OLIGODEOXYRIBONUCLEOTIDES CONTAINING NUCLEOTIDE RESIDUE WITH B-DIKETOGROUP AT C2' ATOM

M.N. Repkova, A.S. Levina, Z.R. Ismagilov, N.V. Shikina, N.A. Mazurkova, V.F. Zarytova
HIGH BIOLOGICAL ACTIVITY OF DNA FRAGMENTS DELIVERED INTO CELLS WITH NANOMATERIALS.

II. ANTIVIRAL PROPERTIES OF NANOCOMPOSITES CONSISTING OF POLYLYSINE-TiO₂ CONJUGATES AND DNA FRAGMENTS

A.S. Levina, M.N. Repkova, Z.R. Ismagilov, N.V. Shikina, N.A. Mazurkova, V.F. Zarytova
HIGH BIOLOGICAL ACTIVITY OF DNA FRAGMENTS DELIVERED INTO CELLS WITH NANOMATERIALS.
I. ANTIVIRAL PROPERTIES OF NANOCOMPOSITES CONSISTING OF TiO₂ NANOPARTICLES AND POLYLYSINE-DNA CONJUGATES

N.V. Shatskaya, S.V. Vasilyeva, A.S. Levina, M.N. Repkova, S. I. Baiborodin, V.N. Silnikov, V.F. Zarytova
NANOBIOCOMPOSITES SiO₂-dNTP CONSISTING OF SiO₂ NANOPARTICLES AND IMMOBILIZED dNTP

G. J. Shevelev, O. A. Vinogradova, M. S. Kuprushkin, A. A. Lomzov, D. V. Sheglov, A. V. Latyshev, D. V. Pyshnyi
VISUALISATION OF DNA NANOSTRUCTURES USING ATOMIC FORCE MICROSCOPY

Yu.E. Spitsyna, I.A. Pyschnaya, A.A. Lomzov, E.I. Ryabchikova
STUDY OF THE MECHANISMS OF GOLD NANOPARTICLES INTERACTION WITH HELA CELLS

SPONSOR SECTION

June 26, Tuesday

House of Scientists, Small Conference Hall

No.	Author(s) and Title of Talk	Timeline
1.	SAMPLE PREPARATION INSTRUMENTS FOR SEQUENCING AND GENETIC RESEARCH Denis Dmitrienko Dia-m, Moscow.	13:00- 13:30
2.	EVOLUTION OF NEXT-GENERATION SEQUENCING AT LIFE TECHNOLOGIES Pavel Natalin Life Technology, Moscow.	13:30- 14:00

Free lunch

June 27, Wednesday

House of Scientists, Music Salon (room 220)

No.	Author(s) and Title of Talk	Timeline
1.	SNP GENOTYPING AND OTHER APPLICATIONS OF AUTOMATED MASS SPECTROMETRY OF NUCLEIC ACIDS Andrey Glubokov BioGen-Analytika, Moscow.	13:00- 13:30
2.	ROCHE APPLIED SCIENCE COMPLEX APPROACH FOR MODERN MOLECULAR GENETICS LABORATORY: FROM ROUTINE DIAGNOSTICS TO SCIENTIFIC DISCOVERY Viktoria Likhareva Roche Diagnostics Rus LLC, Moscow.	13:30- 14:00

Free lunch

**THE EIGHTH INTERNATIONAL CONFERENCE
ON BIOINFORMATICS OF GENOME REGULATION AND
STRUCTURE\SYSTEMS BIOLOGY**

June 27, Wednesday House of Scientists, Small Conference Hall

SECTION “BIOINFORMATICS AND SYSTEMS BIOLOGY OF GENE
EXPRESSION REGULATION”

Co-chairpersons:

Dr. Edgar Wingender, University Medical Center Göttingen, Göttingen, Germany

Dr. Vsevolod Makeev, Vavilov Institute of General Genetics RAS, Moscow, Russia

No.	Author(s) and Title of Talk	Timeline
1.	Remi Houlgatte Centre Hospitalier Universitaire d'Angers, Angers, France META-ANALYSIS OF EXPRESSION PROFILING KEYNOTE TALK	9:00- 9:40
2.	H. Binder Interdisciplinary Centre for Bioinformatics, University Leipzig, Germany DISCOVERING THE EPIGENOME: GLOBAL MAPPING OF HISTONE MARKS AND MODELING TRANSCRIPTIONAL MEMORY	9:40- 10:00
3.	A. Klebanov ^{1,2} ¹ Functional Genomics Group, EMBL-EBI, Cambridge, UK ² Research Centre for Technologies of Programming and Artificial Intelligence, National Research University of Information Technologies, Mechanics and Optics, St Petersburg, Russia DISTRIBUTED ATLAS: A RULE-BASED SYSTEM FOR QUERY FEDERATION OVER SEMANTICALLY ALIGNED GENE EXPRESSION DATA SOURCES	10:00- 10:20
4.	A.V. Klepikova M.V. Lomonosov Moscow State University, Moscow THE LARGE-SCALE ANALYSIS OF ARABIDOPSIS THALIANA MUTANT LEL USING RNA-SEQ	10:20- 10:40
5.	U.Ye. Kairov Kazakh National University after Al-Farabi, Almaty, Kazakhstan National Center for Biotechnology of the Republic of Kazakhstan, Astana, Kazakhstan NETWORK INTERPRETATION AND META-ANALYSIS OF INDEPENDENT COMPONENTS EXTRACTED FROM BREAST CANCER TRANSCRIPTOMES	10:40- 11:00
<i>Coffee/tea break 11:00-11:20</i>		
6.	I. Ernberg Department of Microbiology, Tumor and Cell Biology, Karolinska Institutet, Stockholm, Sweden INTER-CELLULAR NOISE AND TRANSCRIPTIONAL CONTROL OF EPSTEIN-BARR VIRUS LATENCY PROGRAM SWITCHES IN HUMAN B CELL LINES	11:20- 11:40
7.	P. Michalak Virginia Bioinformatics Institute, Virginia Tech, Blacksburg, Virginia, USA EPIGENOMICS OF NUCLEOLAR DOMINANCE	11:40- 12:00

8.	O.N. Ozoline Institute of Cell Biophysics RAS Pushchino State Institute of Natural Sciences “PROMOTER ISLANDS” AS GENOMIC REGIONS WITH QUENCHED TRANSCRIPTION	12:00- 12:20
9..	D.N. Shtokalo A.P.Ershov Institute of Informatics Systems SB RAS, Novosibirsk, Russia St.Laurent Institute, Providence, RI, USA PATTERNS OF MIRNA BINDING SITES LOCATION IN 3`UTRs OF HUMAN TRANSCRIPTS	12:20- 12:40
10.	S.B. Orazova al-Farabi Kazakh National University, Almaty, Kazakhstan PROPERTIES OF miR156a AND miR171a BINDING SITES IN PROTEIN-CODING SEQUENCE OF PLANT GENES	12:50- 13:00
11.	N.V. Demidenko Department of Genetics, Biological faculty, M.V. Lomonosov Moscow State University, Moscow, Russia Evolutionary Genomics Laboratory, Faculty of Bioengineering and Bioinformatics, M.V. Lomonosov Moscow State University, Moscow, Russia RNA-SEQ IDENTIFICATION AND ANALYSIS OF GENES CONTROLLING ABIOTIC STRESS RESPONSE IN BUCKWHEAT	13:00- 13:10
12.	V.A. Lyubetsky Institute for Information Transmission Problems RAS, Moscow, Russia MODELING RNA POLYMERASE INTERACTION IN PLASTIDS OF PLANTS, ALGAE AND MITOCHONDRIA OF CHORDATES: HUMAN BEARING THE MELAS MUTATION AND RAT WITH HYPOSECRETION OF THYROID HORMONE	13:10- 13:20

13:20-14:00 Lunch break

Co-chairpersons:

Dr. Edgar Wingender, University Medical Center Göttingen, Göttingen, Germany

Dr. Vsevolod Makeev, Vavilov Institute of General Genetics RAS, Moscow, Russia

No.	Author(s) and Title of Talk	Timeline
1.	I.V. Kulakovskiy Vavilov Institute of General Genetics RAS, Moscow, Russia Engelhardt Institute of Molecular Biology RAS, Moscow, Russia COMPREHENSIVE COLLECTION OF HUMAN TRANSCRIPTION FACTOR BINDING SITE MODELS KEYNOTE TALK	14:00 – 14:40
2.	I. Grosse Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany Institute of Computer Science, Martin Luther University Halle–Wittenberg, Halle, Germany Institute of Biology II, Albert–Ludwigs–University Freiburg, Freiburg, Germany DE-NOVO DISCOVERY OF DIFFERENTIALLY ABUNDANT DNA BINDING SITES INCLUDING THEIR POSITIONAL PREFERENCE KEYNOTE TALK	14:40 – 15:20

3.	V.G. Levitsky Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia <i>IN SILICO</i> VERIFICATION OF CHIP-SEQ DATA	15:20- 15:40
4.	D.V. Antonets State Research Center of Virology and Biotechnology “Vector”, Koltsovo, Russia COMPARING Hoeffding’s D Measure and Maximal Information Coefficient for Association Analysis	15:40- 15:50
	E.A. Oshchepkova Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia PROMOTERS OF THE GENES ENCODING THE KEY TRANSCRIPTION FACTORS IN THE INFLAMMATORY RESPONSE CONTAIN BINDING SITES FOR Aryl Hydrocarbon Receptor	15:50- 16:00
	I. Yevshin Institute of Systems Biology, Ltd, Novosibirsk, Russia Novosibirsk State University, Novosibirsk, Russia GTRD: ANNOTATING HUMAN GENOME WITH REGULATORY ELEMENTS USING CHIP-SEQ DATA	16:10- 16:20
5.	A.A. Osypov Institute of Cell Biophysics of RAS, Pushchino, Russia ELECTROSTATIC AND OTHER PHYSICAL PROPERTIES OF TRANSCRIPTION FACTORS BINDING SITES	16:20- 16:30
<i>Coffee/tea break 16:30-16:50</i>		
6.	E. Wingender Department of Bioinformatics, University Medical Center Göttingen, Göttingen, Germany A NEW COMPREHENSIVE CLASSIFICATION OF MAMMALIAN TRANSCRIPTION FACTORS USED FOR NETWORK CONSTRUCTION KEYNOTE TALK	16:50- 17:20
7.	E.V. Ignatieva Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia TrDB: A DATABASE OF THE HUMAN, MOUSE, AND RAT TRANSCRIPTIONAL REGULATORS AND ITS POTENTIAL APPLICATIONS IN SYSTEMS BIOLOGY	17:20- 17:40
8.	A.L. Chernobrovkin , V.G. Zgoda, A.V. Lisitsa and A.I. Archakov Institute of Biomedical Chemistry RAMS, Moscow, Russia COMPREHENSIVE ANALYSIS OF UNIDENTIFIED LC-MS FEATURES FOR INVESTIGATING PROTEIN DIVERSITY IN HIGH-THROUGHPUT PROTEOMICS EXPERIMENTS	17:40- 17:50
9.	R. te Boekhorst School of Computer Science, University of Hertfordshire, Hatfield, UK THE LOCATION OF T1 DIABETES ASSOCIATED SNPs IN REGULATORY REGIONS	17:50- 18:10
10	N.S. Khlopova ¹ Russian State Agrarian University – MTAA named after K.A. Timiryazev, Moscow, Russia ASSOCIATIONS BETWEEN PROMOTER POLYMORPHISMS IN KEY GENES OF LIPID METABOLISM AND MYOGENESIS AND ECONOMICALLY VALUABLE TRAITS IN PIGS	18:10- 18:20

June 27, Wednesday Exhibition Centre SB RAS, Conference Hall

COMPUTATIONAL INFERENCE OF NETWORKS FROM HIGH-THROUGHPUT EXPERIMENTAL DATA

Co-chairpersons:

Prof. Dr. Lars Kaderali, Dresden University of Technology, Medical Faculty Carl Gustav Carus, Institute for Medical Informatics and Biometry, Dresden, Germany

Dr. Bettina Knapp, Heidelberg University, BioQuant BQ26, Heidelberg, Germany;
Dresden University of Technology, Institute for Medical Informatics and Biometry, Dresden, Germany

No.	Author(s) and Title of Talk	Timeline
1.	T. Beissbarth University of Goettingen, Goettingen, Germany MODELLING DRUG RESISTANCE IN BREAST CANCER THROUGH NETWORK RECONSTRUCTION BASED ON LONGITUDINAL PROTEIN ARRAY DATA KEYNOTE TALK	14:00 – 14:40
2.	B. Knapp Heidelberg University, ViroQuant Research Group Modeling, BioQuant BQ26, Heidelberg, Germany. ² Dresden University of Technology, Medical Faculty Carl Gustav Carus, Institute for Medical Informatics and Biometry, Dresden, Germany. INFERENCE OF SIGNALING NETWORKS USING A LINEAR MODEL	14:40 – 14:55
3.	C. Gilliam The University of Chicago, IL, USA SYSTEMS BIOLOGY ANALYSIS OF COMPLEX DISORDERS	14:55- 15:20
<i>Coffee/tea break 15:20-15:40</i>		
5.	Y.L. Orlov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia 3D CHROMOSOME CONTACTS AND CHROMATIN INTERACTIONS REVEALED BY SEQUENCING	15:40- 16:05
5.	A.A. Ermakov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia ANALYSIS OF TRANSCRIPTIONAL AND POSTTRANSCRIPTIONAL REGULATION OF AUXIN CARRIER <i>AtPIN1</i>	16:05- 16:30
6.	I.L. Stepanenko , O.G. Smirnova Institute of Cytology & Genetics SB RAS, Novosibirsk, Russia DYNAMICAL AND STRUCTURAL ANALYSIS OF AN APOPTOSIS NETWORK IN HEPATITIS C	16:30- 16:50
7.	M. Pyatnitskiy Ariadne Diagnostics LLC, Rockville, USA Institute of Biomedical Chemistry, RAMS, Moscow, Russia CLUSTER ANALYSIS OF SIGNIFICANT REGULATORS AS NEW APPROACH TO PATIENTS SUBTYPING	16:50- 17:15
8.	A.L. Proskura Design Technological Institute of Digital Techniques SB RAS, Novosibirsk, Russia MECHANISMS OF AMPA RECEPTOR TRAFFICKING AS A BASE OF CHANGING THE SYNAPTIC EFFICIENCY	17:15- 17:35
	I.N. Lavrik ¹ German Cancer Research Center (DKFZ), Heidelberg, Germany ² Bioquant, Heidelberg, Germany ³ Institute of Experimental Internal Medicine, Otto von Guericke University, Magdeburg, Germany TOWARDS UNDERSTANDING OF APOPTOSIS REGULATION BY SYSTEMS BIOLOGY	17:35- 17:55

June 28, Thursday House of Scientists, Small Conference Hall

Morning Session
9:00-12:30

SECTION "GENE FUNCTION DISCOVERY AND SEARCH FOR NEW
PHARMACEUTICAL TARGETS"

Co-chairpersons:

Dr. Elena I. Schwartz, Ariadne Diagnostics LLC, Rockville, USA

Dr. Frank Eisenhaber, Bioinformatics Institute Agency for Science, Technology
and Research, Singapore

No.	Author(s) and Title of Talk	Timeline
1.	N. Belousova Department of Experimental Diagnostic Imaging MD Anderson Cancer Center University of Texas, USA DEVELOPMENT OF ADENOVIRUS- BASED TARGETED GENE DELIVERY TECHNOLOGY KEYNOTE TALK	9:00- 9:30
2.	M.Y. Pakharukova Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia ORGANIZATION OF XENOBIOTIC-METABOLIZING SYSTEM PHASE 1 IN OPISTHORCHIS FELINEUS (TREMATODA, PLATYHELMINTHES).	9:30- 9:50
3.	E. Berezikov Hubrecht Institute and University Medical Center Utrecht, Utrecht, The Netherlands IDENTIFICATION OF STEM CELL GENES AND DRUGS THAT AFFECT REGENERATION IN THE FLATWORM MACROSTOMUM LIGNANO	9:50- 10:10
4.	M.G. Masucci Department of Cell and Molecular Biology, Karolinska Institutet, Stockholm, Sweden. CONTROL OF CULLIN-RING UBIQUITIN LIGASE ACTIVITY BY THE EPSTEIN-BARR VIRUS ENCODED DENEDDYLAISE BPLF1	10:10 – 10:30
5.	D.A. Afonnikov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia Novosibirsk State University, Novosibirsk, Russia, ANALYSIS OF SEQUENCE FEATURES SPECIFYING THE ADHESION ABILITY OF INFLUENZA A VIRUS NEURAMINIDASE AND HEMAGGLUTININ	10:30 – 10:50
<i>Coffee/tea break 10:50-11:10</i>		
6.	P. Spitali Department of Human Genetics, Leiden University Medical Center, Leiden, The Netherlands; Department of Parasitology, Leiden University Medical Center, Leiden, The Netherlands DISCOVERY AND VALIDATION OF SERUM BIOMARKERS FOR MONITORING OF DISEASE PROGRESSION AND THERAPEUTIC RESPONSE IN DUCHENNE MUSCULAR DYSTROPHY. KEYNOTE TALK	11:10- 11:30
7.	E.R. Zabarovsky Karolinska Institute and Linköping University, Stockholm, Sweden IDENTIFICATION OF NEW METHYLATION-REGULATED GENES AS	11:30- 11:50

MOLECULAR TARGETS FOR PHARMACEUTICAL INTERVENTION
AND DIAGNOSIS BASED ON NOTI MICROARRAYS

8. **V.I. Konova**, O.N. Koborova, D.A. Filimonov, V.V. Poroikov
Orekhovich Institute of Biomedical Chemistry of RAMS, Moscow, Russia
COMBINATION OF PROTEIN-PROTEIN INTERACTION NETWORK
ANALYSIS AND DISCRETE MODELING FOR IDENTIFICATION OF
PROMISING PHARMACOLOGICAL TARGETS FOR ALZHEIMER'S
DISEASE 11:50-
12:10-
-
9. **E. Schwartz**
Ariadne Diagnostics LLC, Rockville, USA
NOVEL APPROACH TO META-ANALYSIS OF MICROARRAY
DATASETS FOR IDENTIFICATION OF NEW BIOMARKERS AND
POTENTIAL DRUG TARGETS 12:10-
12:30
-

12:30-14:00 Lunch break

June 28, Thursday Institute of Cytology and Genetics, Conference Hall

Morning Session
10:00-13:20

MICROSYMPOSIUM
“GENETIC DIVERSITY OF LABORATORY ANIMALS IN ADDRESSING
FUNDAMENTAL AND APPLIED PROBLEMS IN POSTGENOMIC BIOLOGY”

Chairperson:

Dr. Mikhail P. Moshkin, Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia

No.	Author(s) and Title of Talk	Timeline
1.	Javier Guillen European Branch of AAALAC, Pamplona, Spain CURRENT STANDARDS OF LABORATORY ANIMAL CARE AND USE	10:00- 10:30
2.	J-B Prins Leiden University Medical Center, Leiden, Holland GENETIC AND PHENOTYPIC CHARACTERISATION A MUST IN TRANSGENIC COLONY MANAGEMENT	10:30- 11:00
3.	A.N. Murashov Institute of Bioorganic Chemistry RAS, Puschino, Russia AAALAC ACCREDITATION AND GLP PRECLINICAL TESTING (PRACTICAL ADVICES)	11:00- 11:30
<i>Coffee/tea break 11:30-11:50</i>		
4.	S. von Hörsten Friedrich-Alexander-Universität Erlangen-Nürnberg Franz-Penzoldt-Center - Experimentelle Therapie, Erlangen, Germany RODENT PHENOTYPING: "COMPREHENSIVE PHENOTYPING OF RODENTS: CLASSICAL AND AUTOMATED APPROACHES IN TRANSLATIONAL RESEARCH"	11:50- 12:20
5.	M.P. Moshkin Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia SPF-VIVARIUM IC&G SB RAS AS FACILITY FOR PRE-CLINICAL STUDIES	12:20- 12:50
6.	E. I. Fateeva Center for Preclinical Studies "MBC Generium, Ltd", Pokrov, Russia IMPACT OF MICROBIOLOGICAL STATUS OF LABORATORY ANIMALS ON THE EXPERIMENTAL RESULTS: WHY WE NEED HEALTH CONTROL?	12:50- 13:20
<i>13:20-15:30 Lunch break</i>		
	ROUND TABLE	15:30- 17:30
	BANQUET (ANIMAL PARTY)	19:00- 20:30

June 28, Friday House of Scientists, Small Conference Hall

Evening Session
14:00-17:35

SECTION "EVOLUTIONARY BIOINFORMATICS"

Co-chairpersons:

Dr. Igor B. Rogozin, Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia/NCBI/NLM/NIH, Bethesda MD, USA

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

No.	Author(s) and Title of Talk	Timeline
1.	A. Tchourbanov Beijing Institute of Genomics (BIG), Beijing, P.R.China HIGH THROUGHPUT SSR CHARACTERIZATION AND LOCUS DEVELOPMENT FROM NEXT GEN SEQUENCING DATA KEYNOTE TALK	14:00 – 14:35
2.	N. A. Zaytseva Siberian Federal University, Krasnoyarsk, Russia EVOLUTION OF MITOCHONDRIAL TRNAS	14:35 – 15:00
3.	S. Yegorov, S.V. Good University of Winnipeg, Winnipeg, Manitoba, Canada USING PALEOGENOMICS TO STUDY THE ORIGIN AND MECHANISM OF DIVERSIFICATION IN VERTEBRATES: THE CASE OF THE RELAXIN FAMILY PEPTIDES AND THEIR RECEPTORS	15:00- 15:25
4.	K.V. Gunbin Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia IMPORTANT ROLE OF THE miRNA CHANGES IN THE HOMO NEANDERTHALENSIS AND HOMO DENISOVA EVOLUTION	15:25 – 15:50
<i>Coffee/tea break 15:50-16:10</i>		
5.	N. Oparina Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow, Russia CYTOCHROME P450 SUPERFAMILY IN VERTEBRATES: EVOLUTIONARY PATHS OF XENOBIOTIC CYP450 AND ENVIRONMENTAL «LIFESTYLES»	16:10- 16:45
6.	D. G. Naumoff Winogradsky Institute of Microbiology RAS, Moscow, Russia EVOLUTION OF THE α -L-RHAMNOSIDASES: HISTORY OF THE LATERAL GENE TRANSFERS AND THE GENE DUPLICATIONS	16:45- 17:10
7.	E.V. Kiseleva Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia EVOLUTIONARY CONSERVATION OF NUCLEAR PORE ORGANIZATION AND COMPOSITION	17:10- 17:35

June 28, Friday Music Salon (room No. 220), House of Scientists SB RAS

Evening Session
14:00-18:00

Open seminar of German/Russian Virtual Network of Bioinformatics
"COMPUTATIONAL SYSTEMS BIOLOGY"

Co-chairpersons:

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

Dr. Alexey V. Kochetov, Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia

Dr. Vladimir A. Ivanisenko, Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia

No.	Author(s) and Title of Talk	Timeline
1.	N.A. Kolchanov Institute of Cytology & Genetics, Novosibirsk, Russia WELCOME SPEECH	14:00 – 14:10
2.	R. Hofstaedt Bielefeld University, Bielefeld, Germany INTEGRATION	14:10 – 14:20
3.	V.A. Ivanisenko Institute of Cytology & Genetics, Novosibirsk, Russia JOINT PROJECTS	14:20 – 14:35
4.	H. Goetz tdb Software Service GmbH, Schwabach, Germany METAGENE - INFORMATION SYSTEM FOR RARE METABOLIC DISEASES	14:35 – 14:55
5.	B. Sommer Bielefeld University, Bielefeld, Germany INTERGRATIVE CELL MODELING USING DATA INTEGRATION AND TEXT MINING APPROACHES	14:55- 15:15
6.	Yu. L. Orlov Institute of Cytology & Genetics, Novosibirsk, Russia TRANSCRIPTION FACTOR BINDING SITES ANALYSIS FROM CHIP-SEQ DATA: MOTIFS AND CO-MOTIFS	15:15- 15:30
7.	I. Grosse Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany DE-NOVO MOTIF DISCOVERY FROM CHIP-SEQ AND RNA-SEQ DATA.	15:30- 15:50
<i>Coffee/tea break 15:50-16:10</i>		
8.	A.O. Bragin Institute of Cytology & Genetics, Novosibirsk, Russia APPLICATION OF CONFORMATIONAL PEPTIDES FOR ANALYSIS OF ALLERGENIC PROTEINS	16:10- 16:25
9.	D. Braun Bielefeld University, Bielefeld, Germany <i>to be specified</i>	16:25- 16:40

10.	I.V. Medvedeva Institute of Cytology & Genetics, Novosibirsk, Russia INFLUENCES OF PROTEIN FUNCTIONAL SITES ENCODING FEATURES ON PROTEIN EVOLUTION IN EUKARYOTA	16:40- 16:55
11.	T.V. Ivanisenko Institute of Cytology & Genetics, Novosibirsk, Russia RECONSTRUCTION OF THE ASSOCIATIVE GENETIC NETWORKS BASED ON INTEGRATION OF AUTOMATED TEXT-MINING METHODS AND PROTEIN-LIGAND INTERACTIONS PREDICTION	16:55- 17:10
12.	E.S. Tiys Institute of Cytology & Genetics, Novosibirsk, Russia STRUCTURE-FUNCTIONAL ORGANIZATION OF THE ASSOCIATIVE GENETIC NETWORKS	17:10- 17:25
13.	DISCUSSION	17:25- 18:00

June 29, Friday House of Scientists, Small Conference Hall

Morning Session
9:00-13:30

SECTION “MATHEMATICAL BIOLOGY AND SYSTEM MODELING”

Co-chairpersons:

Dr. Vladimir P. Golubyatnikov, Sobolev Institute of Mathematics SB RAS,
Novosibirsk, Russia

Dr. Alexander V. Ratushny, Institute for Systems Biology, Seattle, WA, USA

No.	Author(s) and Title of Talk	Timeline
1.	S.I. Bartsev Institute for Biophysics SB RAS, Krasnoyarsk, Russia HEURISTIC NEURAL NETWORK MODELS IN THE INVESTIGATION OF COMPLEX BIOLOGICAL SYSTEMS KEYNOTE TALK	9:00- 9:25
2.	V.A. Likhoshvai Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia MATHEMATICAL BIOLOGY OF GENE KEYNOTE TALK	9:25- 9:50
3.	V.P. Golubyatnikov Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia NON-UNIQUENESS OF CYCLES IN GENE NETWORKS MODELS	9:50- 10:10
4.	A.L. Perezhogin Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia Institute for System Dynamics and Control Theory SB RAS, Irkutsk, Russia MATHEMATICAL METHODS FOR ANALYZING THE DYNAMICS OF THE FUNCTIONING OF DISCRETE MODELS OF GENE NETWORKS.	10:10 – 10:30
5.	L. Milanesi Institute for Biomedical Technologies CNR, Milano, Italy IDENTIFICATION OF THE KEY COMPONENTS TO CONTROL THE BEHAVIOUR OF A COMPLEX PATHWAY: A STUDY ON A MODEL OF MITOCHONDRIAL BIOENERGETICS	10:30 – 10:50
<i>Coffee/tea break 10:50-11:10</i>		
6.	A.V. Ratushny Institute for Systems Biology, Seattle, WA, USA Seattle Biomedical Research Institute, Seattle, WA, USA ASYMMETRICALLY SELF-UPREGULATED (ASSURE) BIOMOLECULAR SYSTEMS	11:10- 11:30
7.	O.A. Igoshin Department of Bioengineering, Rice University, Houston, Texas INTERPLAY OF GENE EXPRESSION NOISE AND ULTRASENSITIVE DYNAMICS AFFECTS BACTERIAL OPERON ORGANIZATION	11:30- 11:50
8.	M. Zakhartsev IPMB, University of Heidelberg, Germany; DYNAMIC MODEL OF ANAEROBIC ENERGY METABOLISM OF YEAST SACCHAROMYCES CEREVISIAE	11:50- 12:10

9.	N.V. Ivanisenko Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia, Novosibirsk State University, Novosibirsk, Russia	12:10 – 12:30
10.	A. Zinovyev Institute Curie, Paris, France INSERM, Paris, France Mines ParisTech, Fontainebleau, France	12:30 – 12:50
11.	S.A. Lashin Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia Novosibirsk State University, Novosibirsk, Russia	12:50 – 13:10
12.	O.L. Zhdanova Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia	13:10 – 13:30

13:30-14:00 Lunch break

June 29, Friday Exhibition Centre SB RAS, Conference Hall

Morning Session
9:00-12:40

SECTION "SUPERCOMPUTER APPLICATIONS IN BIOINFORMATICS"

Co-chairpersons:

Dr. Jaroslaw Zola, Iowa State University, Iowa, USA

Dr. Vyacheslav Ilyin, SINP MSU, Moscow, Russia

Dr. Yuriy Orlov, Institute of Cytology and Genetics, Novosibirsk, Russia

No.	Author(s) and Title of Talk	Timeline
1.	J. Zola Department. of Electrical and Computer Engineering, Iowa State University, Ames, Iowa, USA LARGE SCALE METAGENOMIC CLUSTERING KEYNOTE TALK	9:00- 9:35
2.	L. Milanesi ITBA, Milan, Italy Perspective and challenge of Grid and HPC applications in Biomedical Science	9:35- 10:00
3.	D. Braun Bio-/Medical Informatics Department, Bielefeld, Germany PARALLEL NETWORK ANALYSIS ON INTEGRATED LIFE SCIENCE DATA	10:00- 10:20
4.	S.I. Feranchuk Belarussian State University, Minsk, Belarus BRI-SHUR.COM – A SITE FOR BIOINFORMATICS COMPUTATIONS	10:20- 10:40
5.	A. Yudin Hewlett-Packard, Novosibirsk, Russia HP view: modern trends in HPC	10:40 – 11:00
<i>Coffee/tea break 11:00-11:20</i>		
5.	F. Izquierdo-Carrasco Heidelberg Institute for Theoretical Studies, Heidelberg, Germany CHALLENGES ON LARGE-SCALE COMPUTATIONAL PHYLOGENETICS	11:20- 11:40
6.	A.O. Chugunov Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow A BACTERIAL MEMBRANE "ACHILLES HEEL": HIGH-PERFORMANCE COMPUTER SIMULATION OF PEPTIDOGLYCAN CARRIER LIPID-II IN THE CHARGED LIPID BILAYER	11:40- 12:00
7.	K.N. Kozlov St.Petersburg State Polytechnical University, St.Petersburg, Russia IMPROVED DIFFERENTIAL EVOLUTION ENTIRELY PARALLEL METHOD	12:00- 12:20
8.	N. L. Podkolodnyy Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia Institute of Computational Mathematics and Mathematical Geophysics SB RAS, Novosibirsk, Russia HIGH PERFORMANCE COMPUTING IN BIOINFOMRANTICS: CASE STUDIES	12:20 – 12:40

12:40-14:00 Lunch break

June 29, Friday House of Scientists, Small Conference Hall

Evening Session
14:00-17:50

SECTION "COMPUTER BIOLOGY OF DEVELOPMENT"

Co-chairpersons:

Dr. Eric Mjolsness, University of California, Irvine, USA

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

No.	Author(s) and Title of Talk	Timeline
1.	E.Mjolsness University of California, Irvine, USA MATHEMATICAL MODELING LANGUAGES FOR MORPHODYNAMICS KEYNOTE TALK	14:00 – 14:30
2.	V.V. Mironova Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia COMBINED IN SILICO/IN VIVO ANALYSIS OF AUXIN MEDIATED MECHANISMS OF ROOT APICAL MERISTEM DEVELOPMENT	14:30 – 14:50
3.	J. Szymanowska-Pułka Department of Biophysics and Plant Morphogenesis US, Katowice, Poland DESCRIPTION OF A LATERAL ROOT DEVELOPMENT IN TERMS OF THE GROWTH TENSOR	14:50- 15:10
4.	A. Trubuil INRA, Paris, France ON 3D RECONSTRUCTION AND LINEAGE OF ARABIDOPSIS EMBRYOS FROM A COLLECTION OF OBSERVATIONS OF FIXED SAMPLES BASED ON CONFOCAL MICROSCOPY	15.10- 15.30
<i>Coffee/tea break 15:30-16:00</i>		
5.	Jaap A. Kaandorp University of Amsterdam, Netherlands MODELLING GENE REGULATION OF MORFOGENESIS IN THE SEA ANEMONE NEMATOSTELLA VECTENSIS KEYNOTE TALK	16:00- 16:30
5.	M.G. Samsonova St. Petersburg State Polytechnical University, Russia MODELING OF GAP GENE EXPRESSION IN DROSOPHILA <i>KRUPPEL</i> MUTANTS	16.30- 16.50
6.	T.A. Bukharina Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia THE CENTRAL REGULATORY CIRCUIT OF THE MACROCHAETE MORPHOGENESIS GENE NETWORK: A MODEL OF FUNCTIONING	16:50- 17:10
7.	V.A. Scobeyeva Lomonosov Moscow State University, Moscow, Russia ON THE FACTOR ANALYSIS OF MASS CTLL MOVEMENTS IN AMPHIBIAN GASTRULATION	17:10- 17:30
8.	S.V. Nikolaev Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia ON BIOMECHANICS OF ARABIDOPSIS EMBRYO AND INTERPRETATIONS FOR GEOMETRICAL FEATURES OF EMBRYO RECONSTRUCTIONS BASED ON CONFOCAL MICROSCOPY	17:30- 17:50

June 29, Friday Exhibition Centre SB RAS, Conference Hall
SECTION “INTEGRATIVE BIOINFORMATICS AND INTELLIGENT
KNOWLEDGE DISCOVERY/MANAGEMENT”

Co-chairpersons:

Dr. Andrey Rzhetsky, University of Chicago, USA

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

No.	Author(s) and Title of Talk	Timeline
1.	Ralf Hofestädt , Bielefeld University MODELING ASPECTS OF THE “VIRTUAL CELL”	14:00 – 14:30
2.	O. Krebs Heidelberg Institute for Theoretical Studies (HITS), Germany, SYSMO-DB: A COMMUNITY-BASED APPROACH TO DATA SHARING	14:30 – 14:50
3.	V.A.Ivanisenko Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia. PBSoft Llc, Novosibirsk, Russia. ASSOCIATIVE NETWORK DISCOVERY SYSTEM (ANDSYSTEM): AUTOMATED LITERATURE MINING TOOL FOR EXTRACTING RELATIONSHIPS BETWEEN DISEASES, PATHWAYS, PROTEINS, GENES, MICRORNAS AND METABOLITES	14:50- 15:10
4.	B.V. Semisalov Design Technological Institute of Digital Techniques SB RAS, Novosibirsk Institute of Systems Biology, Ltd, Novosibirsk, Russia COMPUTATIONAL AND ANALYTICAL ASPECTS OF A NEW COMPLEX MODEL DESCRIBING HUMAN CARDIOVASCULAR SYSTEM	15.10- 15.30
<i>Coffee/tea break 15:30-15:50</i>		
5.	Lars Jensen University of Copenhagen - Copenhagen, Denmark (DK) NETWORK BIOLOGY: LARGE-SCALE BIOMEDICAL DATA AND TEXT MINING KEYNOTE TALK	15:50- 16:20
6.	D. Parkhomchuk Department of Medical and Human Genetics, Charite, Universitätsmedizin Berlin, Berlin, Germany GENETALK: AN EXPERT EXCHANGE PLATFORM FOR ASSESSING RARE SEQUENCE VARIANTS IN PERSONAL GENOMES	16.20- 16.40
7.	K.N. Kozlov St.Petersburg State Polytechnical University, St.Petersburg, Russia ProStack LLC, St.Petersburg, Russia PROCESSING OF BIOMEDICAL IMAGES IN TERAPRO	16:40- 17:00
8.	R. Henderson National Institutes of Health, Bethesda, Maryland USA MODELING EMERGENT PROPERTIES OF BIOLOGICAL SYSTEMS WITH AN AGENT-BASED SIMULATION SUITE	17:00 - 17:20
9.	Y.Y.Vaskin Novosibirsk State University, “UniPro” Company, Novosibirsk, Russia DATA MINING TOOL FOR ANALYSIS OF REGULATORY REGIONS OF GENES: INTEGRATION OF EXPERT DISCOVERY AND UGENE	17:20 - 17:40