

## June 24 (Tuesday)

Time	Small Hall	Time	Exhibition Centre	Time	Music hall
09:00 – 13:00	<p style="text-align: center;"><b>BGRS-2014.</b> <b>Evolutionary biology</b> <i>Chairperson:</i> <i>Prof. D. Liberles, University of Wyoming, USA</i></p>	09:00 – 13:00	<p style="text-align: center;"><b>ISHG-2014.</b> <b>Medical genetics</b> <i>Chairpersons:</i> <i>Prof. V. Puzyrev, FSBI Research Institute of Medical Genetics, Tomsk, Russia</i> <i>Prof. M. Voevoda, FSBI Institute of Internal and Preventive Medicine SB RAMS, Novosibirsk, Russia</i></p>	09:00 – 13:00	<p style="text-align: center;"><b>School SBB-2014.</b> <b>Section “Computational analysis of next-gen sequencing data”</b></p>
09:00-09:45	<p><b>D. Liberles</b> Department of Molecular Biology, University of Wyoming, Laramie, USA <b>Lineage-specific processes of genome diversification</b> <b>KEYNOTE TALK</b></p>	09:00 – 09:40	<p><b>A. Polyakov</b> Research Centre of Medical Genetics of the RAMS, Moscow, Russia <b>Cases of autosomal recessive pathology in a group of muscular dystrophy X-linked type of inheritance</b></p>	09:00-09:45	<p style="text-align: center;"><i>Recommended to attend:</i> <b>D. Liberles</b> University of Wyoming, USA <b>Lineage-specific processes of genome diversification</b> <b>KEYNOTE TALK</b></p>
09:45-10:10	<p><b>K.V. Gunbin, D.A. Afonnikov</b> Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia <b>Selective shifts in recent evolution of metazoa</b></p>	09:40 – 10:00	<p><b>I. Lebedev, A. Kashevarova, N. Skryabin</b> FSBI Research Institute of Medical Genetics, Tomsk, Russia <b>Genome architecture and chromosomal diseases</b></p>	10:00-11:00	<p><b>Y. Ruan</b> The Jackson Laboratory, USA <b>Multi-dimensional gene regulation in cancer cells</b></p>
10:10-10:35	<p>A. I. Klimenko, Yu.G. Matushkin, <b>S.A. Lashin</b> Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia <b>Modeling evolution of spatially distributed bacterial communities simulation with haploid evolutionary constructor</b></p>	10:00-10:20	<p><b>N. Yudin, T. Mishakova, V. Maksimov, V. Gafarov, S. Malyutina, M. Voevoda</b> Institute of Internal and Preventive Medicine SB RAMS, Novosibirsk, Russia <b>Association of the dopamine receptor D4 (DRD4) gene polymorphism with cardiovascular disease risk factors</b></p>		
		10:20-10:40	<p><b>N. Skryabin, I. Lebedev</b> FSBI Research Institute of Medical Genetics, Tomsk, Russia <b>Somatic genome variability and morphological heterogeneity of breast cancer</b></p>		

10:35-11:00	<b>V.A. Lyubetsky</b> , A.V. Seliverstov, K.Yu. Gorbunov Institute for Information Transmission Problems, Moscow <b>Rearrangement of chromosomes: problems, algorithms, databases, and gene expression regulations</b>	10:40-11:00	<b>M. Nazarenko</b> , A. Markov, A. Sleptcov, I. Lebedev, N. Skryabin, A. Kashevarova, A. Frolov, O. Barbarash, V. Puzyrev FSBI Research Institute of Medical Genetics, Tomsk, Russia <b>Genome-wide profiling of DNA copy number and methylation in atherosclerosis</b>		
11:00-11:20 <b>Coffee break</b>					
11:20-11:45	<b>O. Reva</b> , I. Korotetskiy, A. Ilyin Bioinformatics and Computational Biology Unit, Biochemistry Department, University of Pretoria, Pretoria, South Africa <b>Discovery of the role of horizontal gene exchange in evolution of pathogenic mycobacteria</b>	11:20-11:40	<b>R. Goncharova</b> , N. Nikitchenko, V. Ramaniuk, N. Savina, T. Kuzhir Institute of Genetics and Cytology, NAS of Belarus, Minsk, Republic of Belarus <b>XPD, XRCC1, OGG1 and ERCC6 polymorphisms and human lifespan</b>	11:20-12:10	<b>A. Morozov</b> BioMaPS Institute for Quantitative Biology, USA <b>Thermodynamics in biology: modeling gene regulation</b>
11:45-12:10	<b>I.D. Sormacheva</b> , G.A. Smyshlyaev, A.G. Blinov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia <b>Transposable elements "flying" between Lepidoptera species</b>	11:40-12:00	<b>I. Goncharova</b> , O. Makeeva, N. Tarasenko, A. Markov, S. Buikin, V. Puzyrev Research Institute of Medical Genetics, Tomsk, Russia; Research Institute of Complex Problems of Cardiovascular Diseases, Kemerovo, Russia <b>Molecular genetics peculiarities of fibrogenesis in different pathological traits in humans</b>		
12:10-12:35	<b>B. Zhong</b> Institute of Fundamental Sciences, Massey University, New Zealand <b>Streptophyte algae and the origin of land plants revisited using the chloroplast genomes and nuclear genes</b>	12:00-12:20	<b>L. Bryzgalov</b> , I. Brusentsov, T. Merkulova ICG SB RAS, Novosibirsk, Russia <b>A novel approach to functional SNP discovery from genome-wide data reveals new variants, associated with colon cancer risk</b>		
		12:20-12:40	<b>V.V. Ilinsky</b> , O.L. Kardymon Vavilov Institute of General Genetics of RAS; Genotek Inc., Moscow, Russia <b>Fetus whole genome sequence by cell-free DNA from mother's blood</b>		
		12:40-13:00	<b>S. Sharapov</b> , Y. Tsepilov, J. Ried, K. Strauch, C. Gieger, Y. Aulchenko ICG SB RAS, Novosibirsk, Russia <b>Genome-wide environmental sensitivity analysis of human metabolomics data</b>		
13:00-14:00 <b>Lunch</b>					

	<b>MM-HPC-2014. Text-mining and intelligent analysis of knowledge in databases</b> <i>Chairpersons:</i> <i>Prof. A. Rzhetsky,</i> <i>The University of Chicago, USA</i> <i>Prof. S.S. Goncharov, Novosibirsk State University, Russia</i>		<b>ISHG-2014. Medical genetics</b> <i>Chairpersons:</i> <i>Prof. V. Puzyrev, FSBI Research Institute of Medical Genetics, Tomsk, Russia</i> <i>Prof. M. Voevoda, FSBI Institute of Internal and Preventive Medicine SB RAMS, Novosibirsk, Russia</i>		<b>School SBB-2014. Practical training</b>
14:00-14:35	<b>A. Rzhetsky</b> The University of Chicago, USA <b>Machine science</b> <b>KEYNOTE TALK</b>	14:00-14:30	<b>V. Maksimov</b> FSBI Institute of Internal and Preventive Medicine SB RAMS, Novosibirsk, Russia <b>Personalized genomic medicine: today and prospects</b>	14:00-14:35	<b>Recommended to attend:</b> <b>A. Rzhetsky</b> The University of Chicago, USA <b>Machine science</b> <b>KEYNOTE TALK</b>
14:35-14:55	Ya.V. Bazaikin, A. P. Chupakhin , A.A. Cherevko, <b>A.K. Khe</b> Lavrentyev Institute of Hydrodynamics; Novosibirsk State University, Novosibirsk, Russia <b>Application of the methods of persistent homology to clinical data analysis</b>	14:30-14:50	<b>M. Golubenko, R. Salakhov, O. Makeeva, V. Kashtalap, O. Barbarash, V. Puzyrev</b> Institute of Complex Problems of Cardiovascular Diseases, Kemerovo, Russia <b>Analysis of mitochondrial DNA polymorphism in patients with acute coronary syndrome</b>		
14:55-15:15	<b>V.A. Ivanisenko, O.V. Saik, E.S. Tiys, T.V. Ivanisenko, P.S. Demenkov</b> Institute of Cytology and Genetics SB RAS; PBSoft LLC, Novosibirsk, Russia <b>ANDsystem: associative network discovery system for automated literature mining in the area of biology</b>	14:50-15:10	<b>E. Trifonova, N. Ershov, V. Serebrova, V. Stepanov</b> Institute for medical genetics SB RAMS, Tomsk, Russia <b>Integrative transcriptome-based approach for association studies: identification of new genetic markers for preeclampsia</b>		
15:15-15:35	<b>I. I. Sankov</b> Novosibirsk State University, Novosibirsk, Russia <b>Mathematical model of vortex camera for culturing tissue cells and microorganisms</b>	15:10-15:30	<b>S. Lenskiy, Y. Lenskaya</b> Ural Federal University, Ekaterinburg, Russia <b>Relationships between human gene set and set of gene disorders</b>		
15:35-16:00	<b>R.M. Hofstaedt, T. Hoppe, A. Shoshi</b> Bielefeld University, Bielefeld, Germany <b>Computation of drug interactions and side effects</b>	15:30-15:50	<b>E. Bragina, M. Freidin, E. Tiys, L. Koneva, V. Ivanisenko, V. Puzyrev</b> Institute of Medical Genetics, SB RAMS, Tomsk, Russia <b>Genome-phenome relationships of polar immunological diseases</b>		
16:00-16:20 <b>Coffee break</b>					

16:20-16:45	<b>D.V. Antonets</b> , D.S. Grudin State Research Center of Virology and Biotechnology "Vector", Koltsovo, Russia <b>Using novel generic string kernel to build pan-specific MHC class I peptide binding prediction tool</b>	16:20-16:40	<b>V. Kharkov</b> , O. Radzhabov, V. Stepanov FSBI Research Institute of Medical Genetics, Tomsk, Russia <b>Gene pool of the native populations of Dagestan: territorial subdivision and correlation with linguistic classification from the data of Y-chromosome markers</b>		
16:45-17:05	<b>I.I. Titov</b> , A.A. Blinov, K.A. Rudnichenko, P.V. Krutov, A.L. Kazantsev, A.I. Kulikov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia <b>Netinference: the computer tools for analysis and visualization of networks structure, dynamics and evolution</b>	16:40-17:00	<b>O. Posukh</b> , A. Churbanov, T. Karafet, A. Bondar, I. Morozov, V. Mikhalskaya, M. Zytsar Institute of Cytology and Genetics, Novosibirsk, Russia <b>Whole exome sequencing in Altaian families (the Altai republic, Southern Siberia) with congenital hearing loss</b>		
17:05-17:40	<b>L.N. Soldatova</b> , D. Nadis, R.D. King, P.S. Basu, Haddi E., V. Baumlé, N.J. Saunders, W. Marwan, B.B. Rudkin Brunel University, London, UK <b>On Matryoshkas and biomedical protocols</b> <b>KEYNOTE TALK</b>	17:00-17:20	M. Ponomarenko, <b>O. Arkova</b> , O. Saik, T. Arshinova, P. Ponomarenko, D. Rasskazov, M. Genaev, E. Komyshev, L. Savinkova, N.A. Kolchanov Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia <b>Annotations <i>in silico</i> of 388 SNPS of the core-promoters of 68 human feeding behavior genes in terms of their potential associations with nervous disorders</b>	17:00-18:30	<b>PRACTICAL TRAINING (ICG SB RAS)</b>  <b>E.S. Tiys</b> Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia <b>Knowledge base on human proteome</b>
		17:20-17:40	<b>G.I. Lifshits</b> Institute of Chemical Biology and Fundamental Medicine SB RAS <b>Translational research of pharmacogenetic technologies in the treatment of cardiovascular diseases</b>		
18:00-19:00	Foyer of Small Hall (House of Scientists SB RAS) <b>BGRS POSTER SESSION</b>	18:00-19:00	Auditorium near Conference hall in the Exhibition Centre SB RAS <b>POSTER SESSION</b>		