

## Friday, 22<sup>nd</sup> June

start	end	
<b>PLENARY LECTURES / Conference Hall, Hotel Palace</b> <b>Chair Prof. Sergei Kozyrev</b>		
9.00	9.30	<b>Prof. Branko Dragovich</b> – p-Adic Genetic Code <i>Mathematical Institute, Serbian Academy of Sciences and Arts, Serbia</i>
9.30	10.00	<b>Prof. Sergey Petoukhov</b> – The New Wide Class of Symmetries in Long DNA-Texts. Elements of Quantum-Information Genetics <i>Mechanical Engineering, Research Institute of Russian Academy of Sciences, Russia</i>
10.00	10.30	<b>Prof. Sergey Volkov</b> – The Mechanisms of DNA Genetic Information Deactivation in Ion Cancer Therapy <i>Bogolyubov Institute for Theoretical Physics, National Academy of Science of Ukraine, Ukraine</i>
10.30	11.00	<b>Coffee break</b>
<b>MORNING SESSION/ Conference Hall, Hotel Palace</b> <b>Chair Dr. Lidija Djokic</b>		
11.00	11.25	<b>Dr. Leonardo de Oliveira Martins</b> – Spectral signature of gene family trees <i>Swiss Institute of Bioinformatics, Switzerland</i>
11.25	11.50	<b>Prof. Ralf Hofstadt</b> – PNlib-Shell: Modeling and Simulation of biological networks based on Petri nets <i>University Bielefeld, Germany</i>
11.50	12.15	<b>Dr. Branka Zukic</b> – Bioinformatics strategy for rare disease diagnostics in the era of next-generation sequencing <i>Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Serbia</i>
<b>POSTER SESSION 4/ Conference Hall, Hotel Palace</b> <b>Chair Dr. Jelena Samardzic</b>		
13.00	14.00	<p>4.P1 – <b>Blagojevic</b>- Defining dynamical property observables which ensure efficient restriction-modification systems establishment in bacterial host</p> <p>4.P2 – <b>Tasic</b> - Application of bioinformatics in the identification of autohtonous bacterial strains of VranjskaBanja thermal springs based on different methods</p> <p>4.P3 – <b>Malkov</b>- Correlation of intrinsically disordered protein regions content with environmental characteristic in Archaea and Bacteria</p> <p>4.P4 – <b>Loncar-Turukalo</b> - Improving Clustering Performance in Microbiome Studies</p> <p>4.P5 – <b>Katic</b> - Motor Imagery Classification using H2O Machine Learning Platform</p> <p>4.P6 – <b>Jelovic</b>- RepeatPlus - program for finding repeats in nucleic acids and proteins</p> <p>4.P7 – <b>Menon</b> - Insilico identification of Transcription End Sites in Human Genome</p> <p>4.P8 –<b>Maljkovic</b> - Analysis of Amino Acid Interactions Based on Geometric Distances</p> <p>4.P9 – <b>Bjelica</b> - Unobtrusive Human Activity Recognition</p> <p>4.P10–<b>Vrecl</b>- Combined in silico and experimental approach to identify the peptide mimetic of the nanobody that stabilize functional</p>

		conformational state of the beta2 adrenergic receptor ( $\beta$ 2AR)			
14.00	15.00	<b>LUNCH*</b>			
<b>Biomedical Informatics / Conference Hall, Hotel Palace Chair Prof. Ralf Hofestadt</b>			<b>TABIS / Banquet Hall, Hotel Palace Chair Prof. Sergey Petoukhov</b>		
15.00	15.10	<b>Dr. Damir Oros</b> – MALDI-TOF/TOF and diagnosis of bacterial UTIs <i>Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia</i>	15.00	15.25	<b>Prof. Vladimir V. Babenko</b> - Brain regions transcriptome analysis in mouse chronic stress model <i>Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia Novosibirsk State University, Novosibirsk, Russia</i>
15.10	15.20	<b>Dr. Vladimir Perovic</b> – Prediction of Human Phenotype Ontology Terms For Intrinsically Disordered Proteins <i>Institute of Nuclear Sciences, Vinča, Serbia</i>	15.25	15.35	<b>Dr. Ermuhammad Dushanov</b> - Effect of mutant NMDA receptors on oscillations in a model of hippocampus <i>Joint Institute for Nuclear Research, Dubna, Russia</i>
15.20	15.30	<b>Dr. Radoslav Davidovic</b> – DiNGO: stand-alone application for GO and HPO term enrichment <i>Institute of Nuclear Sciences, Vinča, Serbia</i>	15.35	15.45	<b>Dr. Natasa Z. Misic</b> - Arithmetical Regularities Inside the Standard Genetic Code as a Clue for the Investigation of Natural Biocomputing <i>Research and Development Institute Lola Ltd., Belgrade Serbia</i>
15.30	15.40	<b>MSc. Goran Vinterhalter</b> - Bioinformatics analysis of correlation between protein function and intrinsic disorder <i>Faculty of Mathematics, University of Belgrade, Serbia</i>	15.45	15.55	<b>MSc. Stefan Graovac</b> - Investigating interplay of intracellular regulation and population dynamics in a bacterial restriction-modification system <i>Faculty of Biology, Faculty of Physics, Belgrade, Serbia</i>
15.40	15.50	<b>MSc. Nikola Milosevic</b> – Information extraction from tables: case studies on extracting demographic information from tables in clinical trial literature and drug-drug interactions from tables in drug labels <i>The University of Manchester, United Kingdom</i>	15.55	16.05	<b>MSc. Alina Păuna</b> - Reduction method for reaction-diffusion equations from biology <i>University of Craiova, Department of Physics, Craiova, Romania</i>
15.50	16.00	<b>MSc. Aleksandar Milovanovic</b> – Numerical approach for determination of virtual functional assessment index in coronary arteries <i>Faculty of Engineering, University of Kragujevac, Serbia</i>	16.05	16.15	<b>DISCUSSION</b>
16.00	16.15	<b>DISCUSSION</b>			
16.15	16.45	<b>Coffee break</b>			
16.45	17.15	<b>CLOSING CEREMONY</b>			
17.15	18.00	<b>SERBIAN SOCIETY FOR BIOINFORMATICS AND COMPUTATIONAL BIOLOGY MEETING</b>			

\* Lunch will start every day at 13.30 and end at 15.30