

BelBI2016 Conference program

Start	End		
Sunday, 19.06.2016.			
18:00	21:00	Early Registration <i>(Hotel "Palace")</i>	
Monday, 20.06.2016.			
		Morning session: Location - <i>Rectors hall, Rectorate of the University of Belgrade</i>	
9:00	10:00	Registration	
10:00	10:15	Opening ceremony	
10:15	11:00	Keynote speaker – Mikhail Gelfand (Moscow State University, Russia) <i>Epigenetic state and spatial structure of chromatin</i>	
11:00	11:45	Welcome cocktail	
11:45	12:30	Keynote speaker – Vladimir Brusic (Nazarbayev University, Kazakhstan) <i>Elemental metabolomics for improving human health</i>	
12:30	13:15	Keynote speaker – Vladimir Uversky (University of South Florida, USA) <i>Intrinsically disordered proteins in salted water and in the thick soup</i>	
14:00	15:00	Lunch (<i>Hotel "Palace"</i>)	
		Afternoon session: Location - <i>Hotel "Palace", conference hall</i>	
15:00	15:35	Invited Speaker: Alexandre Morozov (Rutgers University, USA) <i>Biophysical models of protein evolutionary dynamics</i>	
15:35	16:10	Invited Speaker: Vladik Avetisov (The Semenov Institute of Chemical Physics, RAS, Russia) <i>Complex landscapes and ultrametricity in a biological context</i>	
16:10	16:40	coffee break	
		TABIS Session Hotel "Palace", conference hall	DMBI Session - Hotel "Palace", Banquet hall
16:40	17:00	Aleksandr Bugay (Joint Institute for Nuclear Research, Moscow, Russia) <i>Radiation Induced Dysfunctions in the Working Memory Performance Studied by Neural Network Modeling</i>	Urs Lahrmann (Fraunhofer Institute for Toxicology and Experimental Medicine, Regensburg, Germany) <i>Combined genomic and transcriptomic characterization of single disseminated prostate cancer cells</i>
17:00	17:20	Hanan Masmoudi (Higher institute of Biotechnology of Sfax, Tunisia) <i>Model selection in biomolecular pathways</i>	Miroslava Cuperlovic-Culf (National Research Council of Canada, Ottawa, Canada) <i>Genome-scale Modelling, Metabolomics and Cheminformatics analysis guiding the Discovery of Antifungal Metabolites for Crop Protection</i>
17:20	17:40	Silvia Grigolon (The Francis Crick Institute, United Kingdom) <i>Identifying relevant positions in proteins by Critical Variable Selection</i>	Milos Busarcevic (United World College of the Adriatic, Duino, Italy) <i>Transcriptome data mining results support observed changes in host lipid metabolism during experimental toxoplasmosis</i>
17:40	18:00	Andjela Rodic (University of Belgrade, Faculty of Biology, Serbia) <i>Examining regulation of restriction-modification systems by quantitative modeling</i>	Jovana Kovacevic (University of Belgrade, Faculty of Mathematics, Serbia) <i>One structured output learning method for protein function prediction</i>

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18:00	18:20	Bojana Blagojevic (Institute of Physics, Belgrade, Serbia) <i>Achieving a rapid expression of toxic (but useful) molecules within cell</i>	Davorka Jandrljic (Faculty of Mechanical Engineering, University of Belgrade, Serbia) <i>The influence of amino acids physicochemical properties and frequencies on identifying MHC binding ligands</i>
18:20	18:40	Jelena Guzina (University of Belgrade, Faculty of Biology, Serbia) <i>Transcription initiation by alternative sigma factors</i>	Vladimir Babenko (Institute of Cytology and Genetics, Novosibirsk, Russia) <i>Clustering of CpG-rich elements in gene dense regions</i>

Tuesday, 21.06.2016.

		<i>COST session</i>	
Start	End	Morning session: Location - <i>Hotel "Palace"</i> , conference hall	
9:00	9:35	Invited Speaker: Peter Tompa (Flanders Institute for Biotechnology (VIB), Belgium) <i>The role of structural disorder in protein degradation</i>	
9:35	10:10	Invited Speaker: Silvio Tosatto (University of Padova, Italy) <i>Non-globular proteins: Towards an understanding of the "dark matter" in the protein universe</i>	
10:10	10:45	Invited Speaker: Oxana Galzitskaya (Institute of Protein Research of the Russian Academy of Sciences, Russia) <i>Molecular mechanism of Aβ amyloid formation</i>	
10:45	11:15	coffee break	
11:15	11:50	Invited Speaker: Marco Punta (Pierre and Marie Curie University, France) <i>Intrinsically disordered protein families</i>	
11:50	12:25	Invited Speaker: Alexandre de Brevern (University Paris Diderot, France) <i>On flexibility, deformability and mobility of protein structures in the light of a structural alphabet</i>	
12:25	13:00	Invited Speaker: Ioannis Xenarios (SIB Swiss Institute of Bioinformatics, Switzerland) <i>From biocuration to model predictions and back</i>	
13:00	14:00	Sponsors presentation (SevenBridges)	
14:00	15:00	Lunch (<i>Hotel "Palace"</i>)	
		Afternoon session	
		TABIS Session Hotel "Palace" , conference hall	DMBI/HI Session - Hotel "Palace" , Banquet hall
15:00	15:35	Invited Speaker: Antonio Celani (The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy) <i>Infomax strategies for an optimal balance of exploration and exploitation</i>	Invited Speaker: Ralf Bundschuh (The Ohio State University, USA) <i>Quantifying genome-wide DNA methylation from MethylCap-Seq data and its applications in cancer</i>
15:35	16:10	Invited Speaker: Stojmirovic, Aleksandar (Johnson & Johnson comp., USA) <i>Networks of Co-expression Modules</i>	Paolo Paradisi (Institute of Information Science and Technologies, Pisa, Italy) <i>Complexity measures based on intermittent events in brain EEG data</i>
			Ivan Jovanovic (VINCA Institute, University of Belgrade, Serbia) <i>Could integrative bioinformatic approach predict the circulating miRs that have significant role in pancreatic tissue in type 2 diabetes?</i>

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16:15	16:35	Asja Jelic (The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy) <i>Networks of interaction in moving animal groups and collective changes of direction</i>	Nikola Milosevic (University of Manchester, UK) <i>Hybrid methodology for information extraction from tables in clinical literature</i>
16:35	16:55	Anashkina Anastasia (Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Russia) <i>Bioinformatics Basis for the "Molecular Tweezers" Construction</i>	Petar Velickovic (University of Cambridge, UK) <i>Viral: Real-world competing process simulations on multiplex networks</i>
16:55	17:25	coffee break	
17:25	19:00	Poster Session (Hotel "Palace", Banquet hall)	

Wednesday, 22.06.2016.

Start	End	Morning session: Location - Hotel "Palace", conference hall
8:30	9:05	Invited Speaker: Zoran Obradovic (Temple University, USA) <i>Effectiveness of Multiple Blood Cleansing Interventions in Sepsis</i>
9:05	9:40	Invited Speaker: Natasa Przulj (Imperial College London, UK) <i>Network Data Integration Enables Precision Medicine</i>
9:40	10:15	Invited Speaker: Nitesh Chawla (University of Notre Dame, USA) <i>Leveraging Electronic Medical Records for Personalized and Population Healthcare</i>
10:15	10:50	Invited Speaker: Jose Vilar (University of the Basque Country, Spain) <i>Computational systems biophysics of cellular processes in health and disease</i>
11:00		EXCURSION

Thursday, 23.06.2016.

Start	End	Morning session: Location - Hotel "Palace", conference hall
9:00	9:35	Invited Speaker: Yuriy L. Orlov (Novosibirsk State University, Russia) <i>Comparative analysis of plant genome structure and antisense transcripts</i>
9:35	10:10	Invited Speaker: Paul Sorba (Laboratory of Theoretical Physics and CNRS, France) <i>Symmetry and Minimum Principle: a basis for the Genetic Code</i>
10:10	10:45	Invited Speaker: Konstantin Severinov (Rutgers University, USA) <i>The Influence of Copy-Number Maintenance Mechanisms of Targeted Extrachromosomal Genetic Elements on the Outcome of CRISPR-Cas Defense</i>
10:45	11:15	coffee break
11:15	11:50	Invited Speaker: Bosiljka Tadić (Jozef Stefan Institute, Slovenia) <i>Algebraic Topology Analysis of Brain Graphs Emanating from Social Communications</i>
11:50	12:25	Invited Speaker: Erik Bongcam-Rudloff (Swedish University of Agricultural Sciences, Sweden) <i>Next Generation Biotechnologies, the bad and the good: a look into the future</i>

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12:25	13:00	Invited Speaker: Andrea Ciliberto (IFOM-IEO, Italy) <i>Adapt or die. Investigating the molecular basis of cell variability</i>	
13:00	13:30	Sponsors presentation (Genomix4Life, Pearson)	
14:00	15:00	Lunch (<i>Hotel "Palace"</i>)	
		Afternoon session	
		TABIS Session Hotel "Palace", conference hall	DMBI/BI Session - Hotel "Palace", Banquet hall
15:00	15:35	Invited Speaker: Radu Constantinescu (University of Craiova, Romania) <i>Chaos and symmetry in mathematical neural flow models</i>	Invited Speaker: Jan Baumbach (University of Southern Denmark, Denmark) <i>Computational Breath Analysis – Non-invasive detection of biomarkers in exhaled air and bacterial vapor</i>
15:35	15:55	Natasa Djurdjevac Cosnrad (Zuse Institute Berlin, Germany) <i>A new random-walk-based approach for finding co-expression modules in biological networks</i>	Ana Simonovic (Institute for Biological Research, University of Belgrade, Serbia) <i>Identification of genes involved in morphogenesis in vitro in Centaurium erythraea Rafn. as a model organism</i>
15:55	16:15	Natasa Misic (Lola Institute, Belgrade, Serbia) <i>Standard Genetic Code vs Vertebrate Mitochondrial Code: Nucleon Balances and p-Adic Distances</i>	Richard Roettger (University of Southern Denmark, Odense, Denmark) <i>On the clustering of biomedical datasets - a data-driven perspective</i>
16:15	16:35	Ozal Mutlu (Marmara University, Istanbul, Turkey) <i>Structural Characterization of the Trypanosoma brucei CK2A1-HDAC1/HDAC2 Interactions by Molecular Modeling and Protein-Protein Docking</i>	Milan Vukicevic (University of Belgrade, Faculty of Organizational Sciences, Serbia) <i>White-Box Predictive Algorithms for Predicting Disease States on Gene Expression Data – From Component Based Design to Meta Learning</i>
16:35	17:10	coffee break	
17:10	17:30	Tamara Dimitrova (Macedonian Academy of Sciences and Arts, Macedonia) <i>Analysis of network structural characteristics through vertex characteristics in directed networks</i>	Vesna Pajic (University of Belgrade, Faculty of Agriculture, Serbia) <i>Mining PMMoV genotype-pathotype association rules from public databases</i>
17:30	17:50	Balázs Szalkai (Eötvös University, Budapest, Hungary) <i>Graph Theoretical Analysis Reveals: Women's Brains Are Better Connected than Men's</i>	Ana Jelovic (University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia) <i>Filtering of repeat sequences in genomes</i>
17:50	18:10	Ana Stanojevic (University of Belgrade, Faculty of Physical Chemistry, Serbia) <i>Mathematical Modeling of the Hypothalamic-Pituitary-Adrenal Axis Dynamics in Rats</i>	Milana Grbic (University of Banja Luka, Faculty of Science and Mathematics, Bosnia and Herzegovina) <i>Improving INN strategy for classification of some prokaryotic organisms</i>
18:10	18:30	Yair Lakretz (Tel Aviv University, Israel) <i>The perceptual structure of the phoneme manifold</i>	Sanja Brdar (Institute for research and development of information technology in biosystem, University of Novi Sad, Serbia) <i>Non-negative Matrix Factorization for Integrative Clustering of Bioinformatics Data</i>
20:00		Conference Dinner	

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Friday, 24.06.2016.

		Morning session: Location - <i>Hotel "Palace", conference hall</i>	
Start	End	TABIS Session Hotel "Palace", conference hall	DMBI/HI Session - Hotel "Palace", Banquet hall
9:00	9:35	<i>Invited Speaker: Sergei Kozyrev (Steklov Mathematical Institute, Russia) <i>Dark states in quantum photosynthesis</i></i>	<i>Invited Speaker: Robert Waterhouse (University of Geneva, Switzerland) <i>OrthoDB: an evolutionary perspective to interpreting genomics data</i></i>
9:35	10:10	<i>Invited Speaker: Argyris Nicolaidis (Aristotle University of Thessaloniki, Greece) <i>A Quantum Approach to the DNA Structure</i></i>	<i>Invited Speaker: Goran Nenadic (University of Manchester, UK) <i>What is bioinformatics made from: understanding database and software usage through literature mining</i></i>
10:10	10:30	coffee break	
10:30	11:05	<i>Invited Speaker: Sergey Volkov (Bogolyubov Institute for Theoretical Physics, Ukraine) <i>DNA polymorphism as a tool for genetic information implementation</i></i>	<i>Invited Speaker: Noël Malod-Dognin (Imperial College London, UK) <i>Patient Specific Network Data Integration Enables Precision Medicine in Cancer</i></i>
11:05	11:25	<i>Invited Speaker: Branko Dragovic (Mathematical Institute Serbian SASA, Serbia) <i>Ultrametric Approach to Bioinformation Systems</i></i>	<i>Invited Speaker: Nevena Veljkovic (VINCA Institute, University of Belgrade, Serbia) <i>Transcription factors interaction inference based on sequence feature representations</i></i>
11:25	11:45	Ana Stanojevic (University of Belgrade, Faculty of Physical Chemistry, Serbia) <i>Mathematical Modeling of the Hypothalamic-Pituitary-Adrenal Axis Dynamics in Rats</i>	Zeljko Popovic (University of Novi Sad, Faculty of Sciences, Serbia) <i>DORMANCYbase – developing a bioinformatics database on molecular regulation of animal dormancy</i>
11:45	12:05	<i>Invited Speaker: Igor Volovich (Steklov Mathematical Institute, Russia) <i>To be announced</i></i>	Milena Banjevic (Natera Inc., San Carlos, USA) <i>SNP-Based Noninvasive Prenatal Screening using Cell-Free DNA for Detection of Fetal Chromosome Abnormalities</i>
14:00	15:00	Lunch (Hotel "Palace")	
		Location - <i>Hotel "Palace", conference hall</i>	
16:00	17:30	Round Table Discussion: perspectives and cooperation	
17:30		Closing ceremony	

Keynote speakers	Invited speakers	Speakers in TABIS sessions	Speakers in DMBI sessions	Speakers in HI sessions
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