BelBI2016 Conference program

Thursday, 23.06.2016.

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Morning session: Location - Hotel &quot;Palace&quot;, conference hall</th>
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| 9:00   | 9:35   | **Invited Speaker:** Yuriy L. Orlov (Novosibirsk State University, Russia)  
Comparative analysis of plant genome structure and antisense transcripts |
| 9:35   | 10:10  | **Invited Speaker:** Paul Sorba (Laboratory of Theoretical Physics and CNRS, France)  
Symmetry and Minimum Principle: a basis for the Genetic Code |
| 10:10  | 10:45  | **Invited Speaker:** Konstantin Severinov (Rutgers University, USA)  
The Influence of Copy-Number Maintenance Mechanisms of Targeted Extrachromosomal Genetic Elements on the Outcome of CRISPR-Cas Defense |
| 10:45  | 11:15  | **Chair:** Vladimir Uversky  
Coffee break |
| 11:15  | 11:50  | **Invited Speaker:** Bosiljka Tadič (Jozef Stefan Institute, Slovenia)  
Algebraic Topology Analysis of Brain Graphs Emanating from Social Communications |
| 11:50  | 12:25  | **Invited Speaker:** Erik Bongcam-Rudloff (Swedish University of Agricultural Sciences, Sweden)  
Next Generation Biotechnologies, the bad and the good: a look into the future |
| 12:25  | 13:00  | **Invited Speaker:** Andrea Ciliberto (IFOM-IEO, Italy)  
Adapt or die. Investigating the molecular basis of cell variability |
| 13:00  | 13:30  | Sponsors presentation (Genomix4Life, Pearson) |
| 14:00  | 15:00  | Lunch (Hotel "Palace") |

Afternoon session

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<tr>
<th>Start</th>
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<th>TABIS Session Hotel &quot;Palace&quot;, Banquet hall</th>
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| 15:00  | 15:35  | **Invited Speaker:** Branko Dragovic (Mathematical Institute Serbian SASA, Serbia)  
Ultrametric Approach to Bioinformation Systems |
| 15:35  | 16:15  | Natasa Misic (Lola Institute, Belgrade, Serbia)  
Standard Genetic Code vs Vertebrate Mitochondrial Code: Nucleon Balances and p-Adic Distances |
| 16:15  | 16:35  | Ozal Mutlu (Marmara University, Istanbul, Turkey)  
Structural Characterization of the Trypanosoma brucei CK2A1-HDAC1/HDAC2 Interactions by Molecular Modeling and Protein-Protein Docking |
| 16:35  | 17:10  | **Chair:** Yuriy L. Orlov  
Coffee break |

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| 15:00  | 15:35  | **Invited Speaker:** Jan Baumbach (University of Southern Denmark, Denmark)  
Computational Breath Analysis – Non-invasive detection of biomarkers in exhaled air and bacterial vapor |
| 15:35  | 16:15  | Ana Simonovic (Institute for Biological Research, University of Belgrade, Serbia)  
Identification of genes involved in morphogenesis in vitro in Centaurium erythraea Rafn. as a model organism |
| 15:55  | 16:15  | Natasa Djurdjevac Conrad (Zuse Institute Berlin, Germany)  
A new random-walk-based approach for finding co-expression modules in biological networks |
| 16:15  | 16:35  | Richard Roettger (University of Southern Denmark, Odense, Denmark)  
On the clustering of biomedical datasets - a data-driven perspective |
| 16:35  | 17:00  | Milan Vukicevic (University of Belgrade, Faculty of Organizational Sciences, Serbia)  
White-Box Predictive Algorithms for Predicting Disease States on Gene Expression Data – From Component Based Design to Meta Learning |
| 16:35  | 17:10  | **Chair:** Dragan Matic  
Coffee break |

**Chair:** Marko Djordjevic

**Chair:** Paul Sorba

**Chair:** Noël Malod-Dognin

**Chair:** Yuriy L. Orlov

**Chair:** Dragan Matic
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
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<tbody>
<tr>
<td>17:10</td>
<td><strong>Tamara Dimitrova</strong> (Macedonian Academy of Sciences and Arts, Macedonia)</td>
<td><strong>Dragana Dudic</strong> (University of Belgrade, Faculty of Agriculture, Serbia)</td>
<td>Mining PMMoV genotype-pathotype association rules from public databases</td>
<td>Analysis of network structural characteristics through vertex characteristics in directed networks</td>
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<td>17:30</td>
<td><strong>Balázs Szalkai</strong> (Eötvös University, Budapest, Hungary)</td>
<td><strong>Ana Jelovic</strong> (University of Belgrade, Faculty of Transport and Traffic Engineering, Serbia)</td>
<td>Filtering of repeat sequences in genomes</td>
<td>Graph Theoretical Analysis Reveals: Women’s Brains Are Better Connected than Men’s</td>
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<td>17:50</td>
<td><strong>Balint Varga</strong> (Eötvös Loránd University, Budapest, Hungary)</td>
<td><strong>Milana Grbic</strong> (University of Banja Luka, Faculty of Science and Mathematics, Bosnia and Herzegovina)</td>
<td>Improving 1NN strategy for classification of some prokaryotic organisms</td>
<td>Comparative Connectomics: Mapping the Inter-Individual Variability of Connections within the Regions of the Human Brain</td>
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<td>18:10</td>
<td><strong>Yair Lakretz</strong> (Tel Aviv University, Israel)</td>
<td><strong>Sanja Brdar</strong> (Institute for research and development of information technology in biosystem, University of Novi Sad, Serbia)</td>
<td>Non-negative Matrix Factorization for Integrative Clustering of Bioinformatics Data</td>
<td>The perceptual structure of the phoneme manifold</td>
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<td>20:00</td>
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<td>Conference Dinner</td>
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