Cells maintain a fine-tuned concentration balance in the pool of deoxyribonucleoside 5'-triphosphates (dNTPs). The perturbation of this balance results in increased mutation frequencies suggested to promote cancer development and drug resistance. To study dNTP imbalances and their consequences, an accurate and relatively high-throughput method is necessary. The dNTP quantitation method of our choice is a fluorescence-based, TaqMan-like polymerase assay published by Wilson et al, NAR 2011. This assay has the advantages of being accessible in a standard molecular biology laboratory and having the potential to be automated in contrast to mass spectrometry or radioactive measurements. Although this method works well in diluted samples with high dNTP levels, we observed that the sample matrix largely decreases assay performance.

Upon thorough kinetic analysis of the fluorescent dNTP incorporation curves, we found that the Taq polymerase exhibits a dNTP independent, signal generating exonuclease activity and that the polymerization and exonuclease activity are partially inhibited by the sample matrix. Based on our kinetic investigations we suggest several assay modifications and a novel, kinetics-based and automated analysis method. Using these modifications, we measured dNTP pools in widely different organisms including Mycobacterium smegmatis, Staphylococcus aureus and human cancer cells. We found that our improved method is capable of i) determining dNTP concentrations in samples previously proved to be unmeasurable by eliminating the interfering matrix effect, and ii) improving the quantitation limits of the assay.

**Fundings:** NKFIH-PD 124330, NKFIH-K 115993, János Bolyai Research Scholarship
Silver Sponsor

Exhibitors

AP HUNGARY KFT.

Kasztel

BIOMEDICA

BIO-SCIENCE

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PROGRAMME AND BOOK OF ABSTRACTS
FEBS3+ conference

Programme and Book of Abstracts
2 - 5 September 2018 Siófok, Hungary

Editors-in-chief: Dávis Szüts, László Buday
Technical editors: Róbert Hohol, Gergely Szakáts, Gabriella Bánfalvi
Cover photo: Siófok at sunset by Pierre Bona

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This book is a working material for the FEBS3+ Conference 2018. The professional and grammatical detail of the materials is the authors' responsibility.

Printed in Hungary - 2018
OOK-Press Ltd., Veszprém, Hungary
Responsible for printing: Attila Szathmáry
Dearest Colleagues,

It is our honour and pleasure to welcome you at the FEBS3+ conference ‘*From molecules to living systems*’, in Siófok, Hungary. The FEBS3+ conference scheme supports the joint organisation of scientific meetings by three or more FEBS constituent societies. Accordingly, the Siófok meeting is hosted by the Hungarian Biochemical Society, and is organised together with the Slovenian Biochemical Society, the Croatian Society of Biochemistry and Molecular Biology, and Serbian Biochemical Society. With this conference we aim to replicate the format and build on the success of two earlier FEBS3+ meetings held in 2012 in Opatija, Croatia; and in 2015 in Portorož, Slovenia. The conference will also be considered the National Annual Meeting of the participating societies.

The scientific program will cover the most up-to-date topics in the field of molecular life sciences, particularly biochemistry and molecular biology. Special attention will be given to omics and systems approaches, and to studies exploring the molecular basis of disease. The scientific sessions are organised around themes that are most attractive to the participating societies. We are pleased and honoured the Scientific Program is hallmarked by 1-1 plenary speakers from each organising country; moreover, two of them are FEBS National Lecturers at the same time. We believe that the conference will also provide an excellent opportunity to showcase our latest results in this collection of fast moving and topical research fields, find new ideas and establish new scientific collaborations among the organising countries. We wish to thank the suppliers of laboratory consumables and equipment who are essential for the progress of biomolecular science. We are very grateful for their support of the conference.

In addition to the dynamic and interesting scientific program, we invite you participate in social events. In the first evening we organise a Welcome Party, while on Tuesday afternoon the participants of the conference are invited to get to see the largest freshwater lake of Central Europe, Lake Balaton, by a boat cruise. During the cruise, you can admire the Balaton and its active sailing scene, and the lakeside attractions such as the Tihany Peninsula with its 11th century Benedictine Abbey, which has been declared one of the World Heritage Sites by UNESCO. After the boat excursion, a unique style conference dinner will be organised in the form of a barbecue party on the shore of Lake Balaton.

We wish you all a fruitful and enjoyable meeting and a pleasant staying at picturesque Lake Balaton.

László Buday  
*Chair of the Scientific Committee*

Dávid Szüts  
*Chair of the Organising Committee*
SCIENTIFIC COMMITTEE

- **László Buday, Chair**  
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  Laboratory for Molecular Biology and Nanobiotechnology, National Institute of Chemistry, Ljubljana, Slovenia

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- **Mihajlo B. Spasić**  
  Institute for Biological Research ‘Siniša Stanković’, University of Belgrade, Serbia
ORGANISING COMMITTEE

- **Dávid Szüts, Chair**  
  Institute of Enzymology, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary

- **Péter Bay**  
  Department of Medical Chemistry, University of Debrecen, Hungary

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  Biotechnical Faculty, University of Ljubljana, Slovenia

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  Department of Biotechnology, Jožef Stefan Institute, Ljubljana, Slovenia

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  Department of Biology, Faculty of Science, University of Zagreb, Croatia

- **Suzana Jovanović-Šanta**  
  Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Natural Sciences, University of Novi Sad, Serbia

- **Milan Nikolić**  
  Faculty of Chemistry, University of Belgrade, Serbia
From molecules to living systems
PROGRAMME
### SUNDAY, SEPTEMBER 2, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00 – 15:30</td>
<td><strong>Registration</strong></td>
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<tr>
<td>15:30 – 16:00</td>
<td><strong>Opening ceremony</strong></td>
</tr>
<tr>
<td>16:00</td>
<td><strong>PL-01</strong> Opening lecture / Toscana room</td>
</tr>
<tr>
<td></td>
<td><strong>THE ROLE OF CO-ACTIVATOR COMPLEXES IN</strong></td>
</tr>
<tr>
<td></td>
<td><strong>REGULATING RNA POLYMERASE II TRANSCRIPTION</strong></td>
</tr>
<tr>
<td></td>
<td>László Tora</td>
</tr>
<tr>
<td>16:50 – 17:30</td>
<td><strong>Coffee break</strong></td>
</tr>
<tr>
<td>17:30 – 19:05</td>
<td><strong>#1 Regulation of gene expression</strong> / Toscana room</td>
</tr>
<tr>
<td></td>
<td>chair: Jasmina Rokov-Plavec; co-chair: Melita Vidakovic</td>
</tr>
<tr>
<td>17:30</td>
<td><strong>IT-01</strong> FINE TUNED GENE EXPRESSION VIA Epi-CRISPRS-INDUCED TARGETED DNA (de)METHYLATION</td>
</tr>
<tr>
<td>17:55</td>
<td><strong>IT-02</strong> IDENTIFICATION OF NOVEL REGULATION OF CAS3 ACTIVITY IN ESCHERICHIA COLI</td>
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<tr>
<td></td>
<td>Ivana Ivančić-Baće, D. Markulin, P. Peharec Štefanić, K. Majsec, A. Ćulo, M. Pandžić and M. Matković</td>
</tr>
<tr>
<td>18:20</td>
<td><strong>SL-01</strong> THE INFLUENCE OF ROBINIA PSEUDOACACIA L. AND AMORPHA FRUTICOSA L. ON RELATIVE EXPRESSION OF THE GENES FOR APOPTOSIS AND BIOTRANSFORMATION IN NORMAL AND BREAST CARCINOMA CELLS</td>
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<td></td>
<td>Aleksandra G. Nikezić, Danijela M. Cvetković, Jovana V. Jovančić and Snejana D. Marković</td>
</tr>
<tr>
<td>18:35</td>
<td><strong>SL-02</strong> A POSSIBLE MECHANISM EXPLAINING THE TELOMEREASER PROMOTER INACTIVATION IN MAMMALIAN SOMATIC CELLS</td>
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<td>Balázs Vedelek, Asha Maddali Kiran, Imre Miklós Boros</td>
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<tr>
<td>18:50</td>
<td><strong>SL-03</strong> UNDERSTANDING mRNA DEGRADATION CAUSED BY MISSENSE MUTATION IN AHCY DEFICIENCY</td>
</tr>
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<td></td>
<td>Filip Rokić, Robert Belužić and Oliver Vugrek</td>
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#2 Membrane structure and function / Marbella room

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td>IT-03</td>
<td>CHARACTERISTICS OF ADVANCED LIPID PROFILE IN PATIENTS WITH COLORECTAL CANCER</td>
<td>Aleksandra Zeljkovic, Sandra Vladimirov, Tamara Gojkovic, Aleksandra Stefanovic, Jelena Janac, Jelena Vekic, Dejan Zeljkovic, Bratislav Trifunovic, Zoran Rujanovski and Vesna Spasojevic-Kalimanovska</td>
</tr>
<tr>
<td>17:55</td>
<td>IT-04</td>
<td>EPCAM: NOT AN ADHESION MOLECULE, RATHER A SIGNALING RECEPTOR</td>
<td>Miha Pavšič, Aljaž Gaber and Brigita Lenarčič</td>
</tr>
<tr>
<td>18:20</td>
<td>SL-04</td>
<td>COORDINATED ACTION OF LKB1 AND PKA IN REGULATION OF EPITHELIAL CELL POLARITY</td>
<td>Zeöld Anikó and László Homolya</td>
</tr>
<tr>
<td>18:35</td>
<td>SL-05</td>
<td>PROTEIN-LIPID INTERPLAY IN THE NEURONAL MEMBRANE: GANGLIOSIDES AND SPECIFIC GLYCO PROTEINS AS NEW INTERACTING PARTNERS</td>
<td>Kristina Mlinac-Jerković</td>
</tr>
<tr>
<td>18:50</td>
<td>SL-06</td>
<td>NANOEMULSION-BASED LIPID DROPLETS AS A NEW MODEL LIPID SYSTEM</td>
<td>Valerija Vezočnik, Vesna Hodnik, Halil I. Okur, Simona Sitar, Magda Tušek-Znidarič, Ksenija Kogej, Kristina Sepčić, Sylvie Roke, Ema Žagar and Peter Maček</td>
</tr>
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Welcome party
**MONDAY, SEPTEMBER 3, 2018**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Registration</td>
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<tr>
<td>08:30 – 10:05</td>
<td>#3 Structure and function of proteins / Toscana room</td>
</tr>
</tbody>
</table>
| 08:30 | IT-05 | HPV-16 E7 PHOSPHORYLATION AS A SIGNATURE OF MALIGNANCY  
Vjeko Tomaić |
| 08:55 | IT-06 | INTERACTIONS OF NEP1-LIKE PROTEINS WITH PLANT LIPID MEMBRANES  
Gregor Anderluh, Tea Lenarcic, Tina Snoj, Katja Pirc, Vesna Hodnik and Marijeta Podobnik |
| 09:20 | SL-07 | LIGAND INDUCED CONFORMATIONAL REARRANGEMENTS REGULATE THE SWITCH AMONG FUNCTIONS OF ROCK2  
István Hajdú, András Szilágyi, Barbara Végh, András Wacha, Éva Gráczer, Márk Somogyi, Péter Gál and Péter Závodszky |
| 09:35 | SL-08 | RNA-BINDING OF THE DISORDERED REGIONS IN HISTONE LYSINE METHYLTRANSFERASES  
Ágnes Tantos, Beáta Szabó, Rawan K. I. Abukhairan, Tamás Horváth and Éva Schad |
| 09:50 | SL-09 | HEAT STRESS SIGNIFICANTLY STABILIZES BPM1 PROTEIN IN ARABIDOPSIS THALIANA SEEDLINGS  
Andreja Škiljaica, Mateja Jagić, Lucija Markulin, Dunja Leljak-Levanić and Nataša Bauer |
### MONDAY, SEPTEMBER 3, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>08:00</td>
<td>Registration</td>
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<tr>
<td>08:30 – 10:05</td>
<td><strong>#4 Immunity and inflammation / Marbella room</strong>&lt;br&gt;chair: Tihomir Balog; co-chair: Péter Gál</td>
</tr>
<tr>
<td>08:30</td>
<td><strong>IT-07</strong>&lt;br&gt;CROSS-TALKS BETWEEN THE LECTIN AND THE ALTERNATIVE PATHWAYS OF THE COMPLEMENT SYSTEM&lt;br&gt;Péter Gál, Andrea Kocsis, Gábor Oroszláncs, Dávid Szakács, Katalin Paréj, Ráhel Dani, Gábor Pál, Péter Závodszky and József Dobó</td>
</tr>
<tr>
<td>08:55</td>
<td><strong>IT-08</strong>&lt;br&gt;CYSTATIN F AS A REGULATOR OF IMMUNE CELL CYTOTOXICITY&lt;br&gt;Janko Kos, Mllica Perišić Nanut, Mateja Prunk, Jerica Sabotič, Esmeralda Dautović, Emanuela Senjor and Anahid Jewett</td>
</tr>
<tr>
<td>09:20</td>
<td><strong>SL-10</strong>&lt;br&gt;STUDY OF INTERACTION OF HUMAN ANTIBODIES WITH METALLOPORPHYRINS&lt;br&gt;Nina Božinović, Sébastien Lacroix-Desmazes and Jordan D. Dimitrov</td>
</tr>
<tr>
<td>09:35</td>
<td><strong>SL-11</strong>&lt;br&gt;HIGH DIMENSIONAL IMMUNOPHENOTYPING OF PATIENTS BY SINGLE CELL MASS CYTOMETRY&lt;br&gt;Gábor J. Szebeni, József Ágoston Balog, Ágnes Zvara, László Kovács, Attila Balog, Klára Szalontai and László G. Puskás</td>
</tr>
<tr>
<td>09:50</td>
<td><strong>SL-12</strong>&lt;br&gt;IDENTIFICATION OF NOVEL LEGUMAIN PHYSIOLOGICAL SUBSTRATES PROVIDES NOVEL LINK WITH INNATE IMMUNE RESPONSE IN MICE&lt;br&gt;Robert Vidmar, Matej Vizovišek, Janja Završnik, Aleksander Krajnc, Thomas Reinheckel, Boris Turk and Marko Fonović</td>
</tr>
<tr>
<td>10:05 – 10:40</td>
<td><strong>Coffee break</strong></td>
</tr>
<tr>
<td>10:40</td>
<td><strong>PL-2</strong>&lt;br&gt;Plenary Lecture / Toscana room&lt;br&gt;mRNA SEQUENCE DETERMINANTS OF EFFICIENT PROTEIN SYNTHESIS&lt;br&gt;Sergej Djuranovic, Kyle Cottrell, Manasvi Verma and Slavica Pavlovic-Djurancic</td>
</tr>
<tr>
<td>11:30 – 13:00</td>
<td>Poster Session 1.</td>
</tr>
<tr>
<td>13:00 – 16:00</td>
<td><strong>Lunch break</strong></td>
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</table>
### Programme

**MONDAY, SEPTEMBER 3, 2018**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>16:00 – 16:50</td>
<td>#5 Molecular signaling / Toscana room</td>
<td>VESICULAR TRAFFICKING IN MEGAKARYOPOIESIS AND PLATELET PRODUCTION: THE ROLE OF PI3P AND LATE ENDOSONES/LYSOSOMES</td>
<td>Antonija Jurak Begonja</td>
</tr>
<tr>
<td>16:25 IT-10</td>
<td>REGULATION OF CELLULAR FUNCTIONS BY THE INTERPLAY OF DISTINCT TYPES OF PHOSPHO-SER/THR SPECIFIC PROTEIN PHOSPHATASE</td>
<td>Ferenc Erdődi</td>
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<tr>
<td>16:50 – 17:20</td>
<td>Coffee break</td>
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<tr>
<td>17:20 – 18:05</td>
<td>#5 Molecular signaling / Toscana room</td>
<td>MYOSIN PHOSPHATASE REGULATES GENE EXPRESSION IN CANCER CELLS</td>
<td>Beáta Lontay, Adrienn, Sipos, István Tamás, Evelin Major and Ferenc Erdődi</td>
</tr>
<tr>
<td>17:35 SL-14</td>
<td>MONITORING RAC DYNAMICS IN HIGHLY MOTILE CELLS</td>
<td>Igor Weber, Maja Marinović, Marko Šoštari and Vedrana Filić</td>
<td></td>
</tr>
<tr>
<td>17:50 SL-15</td>
<td>THE LOSS OF SCAFFOLD PROTEIN TKS4 INDUCES EMT LIKE CHANGES IN HUMAN COLORECTAL CARCINOMA CELLS, AND IN TKS4-KO MICE</td>
<td>Bálint Szeder</td>
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### MONDAY, SEPTEMBER 3, 2018

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>16:00 – 16:50</td>
<td><strong>#6 Cell death and differentiation / Marbella room</strong>&lt;br&gt;Chair: Janko Kos; Co-chair: László Fésüs</td>
</tr>
<tr>
<td>16:00</td>
<td><strong>IT-11 MOLECULAR CHARACTERIZATION OF HUMAN BEIGE ADIPOCYTES</strong>&lt;br&gt;László Fésüs, Beáta Bartáné Tóth, Mária Szatmári-Tóth, Ágnes Klusóczki, Rini Arianti, Abhirup Shaw, Szilárd Póliska, Ferenc Győry and Endre K. Kristóf</td>
</tr>
<tr>
<td>16:25</td>
<td><strong>IT-12 BIOPROSPECTING PLANTS AND MICROORGANISMS FOR CYTOTOXIC AND IMMUNOMODULATORY COMPOUNDS: A COMBINED ORGANIC SYNTHESIS AND ANALYSIS APPROACH</strong>&lt;br&gt;Niko S. Radulović</td>
</tr>
<tr>
<td>16:50 – 17:20</td>
<td><strong>Coffee break</strong></td>
</tr>
<tr>
<td>17:20 – 18:05</td>
<td><strong>#6 Cell death and differentiation / Marbella room</strong>&lt;br&gt;Chair: Janko Kos; Co-chair: László Fésüs</td>
</tr>
<tr>
<td>17:20</td>
<td><strong>SL-16 PHAGOCYTOSIS OF APOPTOTIC CELLS FROM THE PERSPECTIVE OF TRANSGlutaminase 2</strong>&lt;br&gt;Zsuzsa Szondy, Zsolt Sarang, Katalin Sándor and Krisztina Köröskényi</td>
</tr>
<tr>
<td>17:35</td>
<td><strong>SL-17 NOVEL WAYS TO CONTROL PARPI-MEDIATED CELL DEATH</strong>&lt;br&gt;László Virág, Zsolt Regdon, Agnieszka Robaszkiewicz, Alexandra Kiss, Katalin Kovács and Csaba Hegedűs</td>
</tr>
<tr>
<td>17:50</td>
<td><strong>SL-18 BATOKINES - INTERLEUKIN-6 RELEASED FROM DIFFERENTIATING HUMAN BEIGE ADIPOCYTES IMPROVES BROWNING</strong>&lt;br&gt;Endre Károly Kristóf, Ágnes Klusóczki, Abhirup Shaw, Klára Varga, Boglárka Vinnai, Ferenc Győry, Beáta Bartháné Tóth, Szilárd Póliska, Zsolt Bacsó and László Fésüs</td>
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<td>09:35</td>
<td>SL-20</td>
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<td>09:50</td>
<td>SL-21</td>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>08:30 – 10:05</td>
<td>#8 Developmental Biology and neuroscience / Marbella room</td>
<td>chair: Zrinka Kovarik, co-chair: Gábor Juhász</td>
</tr>
<tr>
<td>08:30</td>
<td>IT-15</td>
<td>NON-AUTOPHAGIC ROLES OF ATG PROTEINS IN DROSOPHILA</td>
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<td></td>
<td></td>
<td>Gábor Juhász</td>
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<tr>
<td>08:55</td>
<td>IT-16</td>
<td>ABHYDROLASE DOMAIN-CONTAINING PROTEIN 4 (ABHD4) IS AN ESSENTIAL REGULATOR OF CELL FATE DECISION IN THE MOUSE EMBRYONIC NEOCORTEX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zsófia I. László, Zsolt Lele, Miklós Zöldi, Vivien Miczán, Zsolt Balogi, Fruzsina Mógor, Ashley J. Dorning, Gabriel M. Simon, Ken Mackie, Imre Kacskovics, Benjamin F. Cravatt and István Katona</td>
</tr>
<tr>
<td>09:20</td>
<td>SL-22</td>
<td>A NOVEL CRUCIAL ROLE OF VITAMIN C IN A PROCESS OF NORMAL NEURONAL MIGRATION</td>
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<td>Ivan Capo, Natasa Hinic, Ivan Milenkovic, Nada Vuckovic, Lalosevic Dusan, Nebojsa Stilinovic and Slobodan Sekulic</td>
</tr>
<tr>
<td>09:35</td>
<td>SL-23</td>
<td>POTENT LIPOPHILIC REACTIVATORS OF PHOSPHORYLATED CHOLINESTERASES ARE NOT CYTOTOXIC AND ARE METABOLICALLY STABLE</td>
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<td>Tamara Zorbaz, Petra Mišetić, Antonio Zandona, Anissa Braiki, Nikolina Maček Hrvat, Maja Katalinić, Vesna Gabelica Marković, Ludovic Jean, Pierre-Yves Renard and Zrinka Kovarik</td>
</tr>
<tr>
<td>09:50</td>
<td>SL-24</td>
<td>WHAT WE HAVE LEARNED FROM THE TKS4 KNOCK OUT MOUSE</td>
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<td>Virag Vas, Gyöngyi Kudlik, Tamás Háhner, Metta Dülk, Kitti Koprivanacz, Balázs Merő, Bálint Szeder and László Buday</td>
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<tr>
<td>10:05 – 10:40</td>
<td>Coffee break</td>
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<tr>
<td>10:40</td>
<td>PL-3</td>
<td>Plenary Lecture / Toscana room</td>
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<tr>
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<td></td>
<td>THE FLUID WORLD OF PROTEIN-RNA COMPLEXES: ASSEMBLY, FUNCTION &amp; EVOLUTION</td>
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<td>Jernej Ule</td>
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<tr>
<td>11:30 – 13:00</td>
<td>Poster Session 2</td>
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<tr>
<td>13:00 – 14:15</td>
<td>Lunch break</td>
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<td>14:30 – 16:30</td>
<td>Boat Excursion</td>
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<td>20:00 – 23:00</td>
<td>Congress Dinner</td>
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<tr>
<td>08:00</td>
<td>Registration</td>
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<tr>
<td>08:30</td>
<td><strong>IT-17</strong> EXPLORING TRANSCRIPTONAL REGULATORY NETWORKS IN POTATO IMMUNE SIGNALING Kristina Gruden</td>
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<tr>
<td>08:55</td>
<td><strong>IT-18</strong> ULTRAHIGH-THROUGHPUT SCREENING SYSTEMS FOR DIRECTED EVOLUTION OF ENZYMES Radivoje Prodanovic</td>
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<tr>
<td>09:20</td>
<td><strong>SL-25</strong> CROSSING ENHANCED AND HIGH FIDELITY SPCAS9 NUCLEASES Péter István Kulcsár, András Tálas, Krisztina Huszár, Eszter Tóth, Nóra Weinhardt, Elfrida Fodor and Ervin Welker</td>
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<td>09:35</td>
<td><strong>SL-26</strong> IMPROVEMENT OF THE OXIDATIVE STABILITY OF FUNGAL LIGNINOLYTIC Peroxidases BY FACS-BASED HIGH THROUGHPUT SCREENING SYSTEM Karla Ilic Durdic, R. Ostafe, H. Schinkel, S. Ece, S. Schillberg, R. Fischer and R. Prodanovic</td>
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<tr>
<td>09:50</td>
<td><strong>SL-27</strong> ENGINEERING SAFE LACTIC ACID BACTERIA FOR THE TREATMENT OF INFLAMMATORY BOWEL DISEASE Aleš Berlec, Katja Škrlec and Borut Štrukelj</td>
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<td>10:05</td>
<td><strong>Coffee break</strong></td>
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**WEDNESDAY, SEPTEMBER 5, 2018**
## WEDNESDAY, SEPTEMBER 5, 2018

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<tr>
<td>08:00</td>
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<tr>
<td>08:30 – 10:05</td>
<td><strong>#10 Systems biology and bioinformatics / Marbella room</strong></td>
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<td>chair: Edward Petri; co-chair: Marko Fonović</td>
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<td>08:30</td>
<td><strong>IT-19 PROTEASE CLEAVAGE SITE FINGERPRINTING BY LABEL-FREE IN-GEL DEGRADOMICS</strong></td>
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<td>Robert Vidmar, Matej Vizovišek, Dušan Turk, Boris Turk, Marko Fonović</td>
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<td>08:55</td>
<td><strong>IT-20 STRUCTURE BASED DESIGN OF STEROIDAL INHIBITORS OF BREAST AND PROSTATE CANCER CELL GROWTH</strong></td>
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<td>Edward Petri, Andjelka Ćelić, Jovana Plavša, Sofija Bekić, Maja Marinović, Jovana Ajduković, Marina Savić, Olivera Klisurić and Marija Sakač</td>
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<td>09:20</td>
<td><strong>SL-28 A SYSTEMS BIOLOGICAL ANALYSIS OF CELLULAR LIFE-AND-DEATH DECISION IN NEURODEGENERATIVE DISEASES</strong></td>
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<td>Orsolya Kapuy, Marianna Holczer, Margita Márton, Boglárka Besze, Bence Hajdú and PK Vinod</td>
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<td>09:35</td>
<td><strong>SL-29 SLIC-CAGE: HIGH-RESOLUTION TRANSCRIPTION START SITE MAPPING USING NANOGRAM-LEVELS OF TOTAL RNA</strong></td>
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<td>Nevena Cvetesic, Harry Leitch, Malgorzata Borkowska, Ferenc Müller, Piero Carninci, Petra Hajkova and Boris Lenhard</td>
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<td>09:50</td>
<td><strong>SL-30 COMBINATORIAL ASSEMBLY OF OVERLAPPING SUPERENHANCERS IN DIFFERENT TISSUES</strong></td>
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<td>Dóra Bojcsuk, Gergely Nagy and Bálint L. Bálint</td>
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<tr>
<td>10:05 – 10:35</td>
<td><strong>Coffee break</strong></td>
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From molecules to living systems

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<tr>
<td>10:35</td>
<td>IT-21</td>
<td>REGULATION OF NIX-MEDIATED MITOPHAGY</td>
<td>Mija Marinković, Matilda Šprung, Vladimir Rogov, Volker Dötsch, Ivan Đikić and Ivana Novak</td>
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<tr>
<td>11:00</td>
<td>IT-22</td>
<td>ESTROGEN BIOSYNTHESIS AND OXIDATIVE METABOLISM IN ENDOMETRIAL CANCER</td>
<td>Tea Lanšnik Rižner, Maša Sinreih, Renata Pavlič, Neli Hevir, Suzana Vidic and Tamara Knific</td>
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<tr>
<td>11:25</td>
<td>SL-31</td>
<td>WHERE TRANSLATION MEETS PLANT STEROID METABOLISM: INTERACTION OF SERYL-TRNA SYNTHETASE AND BEN1 PROTEIN FROM ARABIDOPSIS THALIANA</td>
<td>Mario Kekez, Vladimir Zanki, Ivana Kekez, Dubravka Matković-Čalogović and Jasmina Rokov-Plavec</td>
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<td>11:40</td>
<td>SL-32</td>
<td>SEXUAL ASPECTS IN HEPATIC METABOLISM AND ITS ABNORMALITIES: A SYSTEMS APPROACH</td>
<td>Damjana Rozman, Kaja Blagotinšek, Tanja Cvitanović, Žiga Urlep, Peter Juvan, Miha Moškon and Miha Mraz</td>
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<td>11:55</td>
<td>SL-33</td>
<td>PREECLAMPSIA MODULATES STRUCTURE OF THE INSULIN AND THE TYPE 1 INSULIN-LIKE GROWTH FACTOR RECEPTOR</td>
<td>Dragana Robajac, Romana Masnikosa, Željko Miković and Olgica Nedić</td>
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<tr>
<td>10:35 – 12:10</td>
<td>#12 Molecular basis of disease and therapy / Marbella room</td>
<td>chair: Marija Gavrovic-Jankulovic; co-chair: Ferenc Gallyas</td>
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<td>11:00</td>
<td>IT-24</td>
<td>THE MOLECULAR BASIS OF BEHAVIOURAL TRAITS IN GANGLIOSIDE SYNTHESIS DEFICIENT MICE</td>
<td>Marija Heffer, David Andrijević, Milorad Zjalić, Ozana Katarina Tot, Barbara Viljetić, Senka Blažetić, Irena Labak, Siniša Skokić, Srečko Gajović and Ron Schnaar</td>
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<td>11:25</td>
<td>SL-34</td>
<td>MULTI-TARGET BASED PHENOTYPIC SCREENING: A NEW CONCEPT IN THE STRATEGY OF DRUG DISCOVERY AGAINST ALZHEIMER’S DISEASE</td>
<td>László Puskás</td>
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<td>11:40</td>
<td>SL-35</td>
<td>CATHEPSIN X INHIBITORS: NOVEL OPPORTUNITY TO IMPAIR TUMOR PROGRESSION AND IMPROVE CATHEPSIN B DIRECTED ANTITUMOR THERAPY</td>
<td>Ana Mitrović, Janja Završnik, Špela Pečar Fonović, Damijan Knez, Stanislav Gobec, Boris Turk and Janko Kos</td>
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<td>11:55</td>
<td>SL-36</td>
<td>HOXA10, A PROGNOSTIC MARKER IN ACUTE MYELOID LEUKEMIA PATIENTS WITH NPM1 DRIVER MUTATION</td>
<td>Ágnes Ösz, Ádám Nagy, Csaba Bödör and Balázs Győrffy</td>
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<tr>
<td>12:10</td>
<td>PL-4</td>
<td>Plenary Lecture / Toscana room</td>
<td>Sanja Sever</td>
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<td>13:00 – 13:05</td>
<td>Closing remarks</td>
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POSTER SESSION 1. - MONDAY, SEPTEMBER 3, 2018
11:30 – 13:00

Poster mounting: September 2, 12:00; Removal: September 5, 12:00

P1-01 CANONICAL ELEMENTS DRIVE SUPER-ENHANCER FORMATION
Dóra Bojcsuk, Gergely Nagy and Bálint L. Bálint

P1-02 COMPARING CHROMOSOMAL INTERACTION PATTERNS IN HUMAN DRUG RESISTANT AND SENSITIVE CANCER CELLS
Anikó Szabó, Gábor Jaksa, Lajos Pintér and Imre Boros

P1-03 COMPARISON OF GENE EXPRESSION PROFILES OF DEEP NECK AND SUBCUTANEOUS HUMAN ADIPOCYTES TO INVESTIGATE THERMOGENIC POTENTIAL
Rini Arianti, Beáta Bartáné Tóth, Abhirup Shaw, Attila Vámor, Ferenc Győry, Szilárd Póliska, Endre Károly Kristóf and László Fésüs

P1-04 COOPERATION OF PROTECTIVE MOLECULAR AND BEHAVIOURAL RESPONSES TO EARLY LIFE STRESS IN CAENORHABDITIS ELEGANS
Eszter Geese, Beatrix Gilányi, Csaba Márton, Gábor Hajdu and Csaba Sóti

P1-05 COUP-TFII (SUPER) ENHANCERS ARE ASSOCIATED WITH CTCF MEDIATED INTERACTIONS IN CANCER CELL LINES
Edina Erdős and Bálint László Bálint

P1-06 DAF-21/HSP90 IS REQUIRED FOR C. ELEGANS LONGEVITY BY ENSURING DAF-16/FOXO ISOFORM A FUNCTION
Milán Somogyvári, Eszter Geese and Csaba Sóti

P1-07 FUNCTIONAL GENOMIC VARIABILITY OF HUMAN B-LYMPHOBLASTOID CELL LINES WITH IMPLICATIONS IN PHARMACOGENOMIC RESEARCH
Lilla Ozgyin, Attila Horváth, Zsuzsanna Hevesy and Bálint L. Bálint

P1-08 MGA73 AND BACH2 PROMOTER METHYLATION CORRELATES WITH THE IGG GLYCOME IN INFLAMMATORY BOWEL DISEASES
Marija Klasić, Dora Markulin, Aleksandar Vojta, Ivana Samaržija, Ivan Biriš, Paula Dobrinić, Irena Trbojević-Akmačić, Gordan Lauc and Vlatka Zoldoš

P1-09 THE CROSS-TALK OF CHOLESTEROL HOMEOSTASIS AND THE CIRCADIAN CLOCK
Cene Skubic, Živa Drakulić, Andrej Vrankar, Žiga Urlep and Damjana Rozman

P1-10 PLANT AMINOACYL-TRNA SYNTHETASES IN ABIOTIC STRESS
Jurica Baranasic, Anita Mihalak, Mario Kekez and Jasmina Rokov-Plavec

P1-11 RELATIVE QUANTIFICATION OF YEAST CELL WALL PROTEINS IN LOGARITHMIC AND STATIONARY GROWTH PHASE
Marko Jurkovic, Ida Kovacevic, Ana Novacic and Igor Stuparevic

P1-12 THE EFFECT OF EPIGENETIC SILENCING OF HNFA GENE ON GLYCOsylation IN DIABETES AND PANCREATIC DUCTAL ADENOCARCINOMA
Ivona Beceheli, Petra Korac, Gordan Lauc and Vlatka Zoldos
P2-01  GENE EXPRESSION PROFILES OF ABC TRANSPORTERS AS A PREDICTOR TO CHEMOTHERAPY IN BREAST CANCER
János Tibor Fekete and Balázs Győrffy

P2-02  POLYUNSATURATED FATTY ACIDS PHOSPHOLIPIDS PROFILES IN PLASMA AND LIVER IN WISTAR RATS OF DIFFERENT AGE
Tamara Popović, Jasmina Debeljak Martačić, Aleksandra Arsić, Slavica Ranković, Biljana Pokimica and Maria Glibetić

P3-01  AFFINITY-BASED SPECIFICITY-MAP OF S100 PROTEINS
Márton Simon, Gergő Gógl, Péter Ecsédi and László Nyitray

P3-02  APPLICATION OF SV40 LARGE T ANTIGEN-BASED IN VITRO REPLICATION COUPLED WITH INTERFERENCE STUDIES FOR MONITORING LESION BYPASS IN CELLULAR EXTRACTS
Zoltán Szeltner, Dávid Szüts and Ádám Póti

P3-03  ATBPM PROTEIN INTERACTS WITH COMPONENTS OF RNA-DIRECTED DNA METHYLATION
Mateja Jagić, Andreja Škiljaica, Nataša Bauer and Dunja Leljak-Levanić

P3-04  CALCIUM INDUCED FOLDING OF PERNISINE, A THERMOSTABLE SERINE PROTEASE FROM EXTREMOPHILIC ARCHAEA AEROXYRUM PERNIX
Miha Bahun, Marko Šnajder, Kevin Hartman, Anamarija Habič and Nataša Poklar Ulrih

P3-05  CHARACTERIZATION OF THE INTRAMOLECULAR INTERACTIONS OF THE PROTEIN TKS4
Balázs Merő, Anna Cserkaszky, Kitti Koprivanac, László Radnai, Bálint Szeder, Virág Vas, Metta Dühl, Gyöngyi Kudlik, Gergő Gógl and László Buday

P3-06  CHOLESTEROL-DEPENDENT EPITOPE MAPPING IN P-GLYCOPROTEIN WITH MASS SPECTROMETRY
Gabriella Gellén, Eva Klement, Katalin Medzihradszky, Andrew Holding and Zsolt Bacso

P3-07  COMPARATIVE PROTEOMIC ANALYSIS OF 2,6-DI-TERT-BUTYLPHENOL DEGRADATION BY PSEUDOMONAS AERUGINOSE SAN AI
Ana Medić, Sonja Šuvakov, Ksenija Stojanović and Ivanka Karadžić

P3-08  COMPARATIVE PROTEOMIC ANALYSIS OF 2,6-DI-TERT-BUTYLPHENOL DEGRADATION BY PSEUDOMONAS AERUGINOSE SAN AI
Ana Medić, Sonja Šuvakov, Ksenija Stojanović and Ivanka Karadžić

P3-09  COULD BINDING OF ANTIPSYCHOTIC CLOZAPINE TO KEY ANTIOXIDANT ENZYMES BE ONE OF THE MISSING LINKS IN CLARIFYING ITS SIDE EFFECTS?
Tamara Vasović, Simeon Minić, Aleksandra Nikolić-Kokić, Duško Blagojević, Ćedo Miljević, Mihajlo B. Spasić and Milan Nikolić
P3-10  EFFECT OF ALTERNATIVE SPLICING ON HUMAN TRANSMEMBRANE PROTEIN TOPOLOGY
Júlia K. Varga and Gábor E. Tusnády

P3-11  EPITHELIAL CELL ADHESION MOLECULE DOES NOT FORM INTER-CELLULAR HOMO-OLIGOMERIC CONTACTS
Aljaž Gaber, Seung Joong Kim, Robyn M. Kaake, Mojca Benéina, Nevan Krogan, Andrej Šali, Miha Pavšič and Brigita Lenarčič

P3-12  EXPRESSION AND NMR INVESTIGATION OF GKAP AND OTHER POSTSYNAPTIC PROTEINS
Bálint Péterfia, József Hegedűs, Melinda Keresztes, Anna Sánta, István Pap, Gyula Batta and Zoltán Gáspári

P3-13  FUNCTIONAL INTERACTION BETWEEN ADENOSINE 2A RECEPTOR AND CATHEPSIN D PROTEASE IN MACROPHAGES
Adrienn Skopál, Endre Kókai, Bence Gergely, Tamás Kéki, György Haskó and László Virág

P3-14  IDENTIFICATION OF NOVEL MITOTIC SUBSTRATES OF THE EVOLUTIONARILY CONSERVED PP4 PHOSPHATASE
Zoltán Kármán and Zoltán Lipinszki

P3-15  IN VITRO ENZYMATIC INVESTIGATION OF A HUMAN DUTPASE MUTATION RELEVANT IN MONOGENIC SYNDROME WITH DIABETES AND BONE MARROW FAILURE
Dániel Andrási, Kinga Nyíri, Beáta G. Vértessy and Judit Eszter Szabó

P3-16  ISOFORM SELECTIVE REGULATION OF NON-MUSCLE MYOSIN 2 BY C-TERMINAL PHOSPHORYLATION AND S100 PROTEIN BINDING
Péter Ecsédi, Neil Billington, Gyula Pálfy, Gergő Gógl, Bence Kiss, Éva Bulyáki, Andrea Bodor, James R. Sellers and László Nyitray

P3-17  LIQUID-LIQUID PHASE SEPARATION OF INSTRINSICALLY DISORDERED ERD CHAPERON PROTEIN INDUCED BY PROTEIN-RNA INTERACTION
Nikoletta Murvai, Ágnes Tantos, Beáta Szabó, Bálint Szeder, Csaba Jobbágy, Dénès Kovács and Péter Tompa

P3-18  LIQUID-LIQUID PHASE SEPARATION THROWS NEW LIGHT ON ONCOGENIC FUSION PROTEINS
Rita Pancsa, Éva Schád and Péter Tompa

P3-19  NME6 EXPRESSION AND SUBCELLULAR LOCALIZATION IN HUMAN TUMOR CELL LINES
Bastien Proust, Martina Radić, Lucija Ačkar, Nikolina Škrobot Vidaček, Helena Četković and Maja Herak Bosnar

P3-20  NON-CANONICAL ROLE OF THE SNARE PROTEIN YKT6 IN AUTOPHAGOSOME-LYSOSOME FUSION
Gábor Glatz, Szabolcs Takáts and Gábor Juhász

P3-21  SILENCING OF MIF AFFECTS MATRIX METALLOPROTEINASE 2 (MMP2) AND MMP9 EXPRESSION IN HUMAN TROPHOBLAST HTR-8/SVNEO CELL LINE
Aleksandra Vilotić, Milica Jovanović Krivokuća and Ljiljana Vićovac
P3-22  STRUCTURAL AND CALCIUM BINDING STUDIES OF HUMAN NON-MUSCLE α -ACTININ-1
Sara Drmota Prebil, Urška Slapšak, Miha Pavšič, Gregor Ile, Euripedes de Almeida Ribeiro,
Dorothea Anrather, Markus Hartl, Lars Backman, Janez Plavec, Brigita Lenarčič and
Kristina Djinović-Carugo

P3-23  THE DIFFERENCE OF AMYLOID FIBRIL FORMATION AFTER REDUCTION AND DENATURATION OF CRUDE PROTEIN PREPARATIONS
Jelica Milosevic and Natalija Polovic

P3-24  THE STRUCTURAL FEATURES OF ADAPTIVELY EVOLVING HUMAN PROTEIN REGIONS
Éva Schád, Erzsébet Fichó, István Simon, Péter Tompa and Rita Pancsa

P4-01  CROWN ETHERS ARE ABLE TO REVERSE MULTIDRUG RESISTANCE AND AFFECT MITOCHONDRIAL FUNCTION IN CANCER CELLS
Marija Mioč, Marko Marjanović, Iva Guberović and Marijeta Kralj

P4-02  CYSTATIN F AND REGULATION OF EFFECTOR FUNCTION OF CYTOTOXIC T CELLS
Mateja Prunk, Milica Perišić Nanut, Jerica Sabotić and Janko Kos

P4-03  ECOTIN, A SERINE PROTEINASE INHIBITOR FROM E. COLI, IS A POTENT COMPLEMENT LECTIN PATHWAY INHIBITOR
Zoltán Attila Nagy, Dávid Szakács, Veronika Harmat, Dávid Héja, Gábor Oroszlán,
Barbara Végh, József Dobó, Péter Gál and Gábor Pál

P4-04  IGE IMMUNE RESPONSE IN DOGS AGAINST MEALWORM PROTEINS
Blanka Premrov Bajuk, Petra Zrimšek, Tina Kotnik, Ana Lucija Škrajnar, Ana Škorjanc and
Breda Jakovac Strajn

P4-05  IMMUNOMODULATORY AND CYTOTOXICO EFFECTS OF FUNGAL LECTIN CNL
Milica Perišić Nanut, Špela Konjar, Simon Žurga, Jerica Sabotić and Janko Kos

P4-06  INVESTIGATING THE ROLE OF TG2 IN MUSCLE REGENERATION
Nour Al Zaeed, Zsófia Budai and Sarang Zsolt

P4-07  MERLOT WINE PHENOLICS AS MODULATORS OF CYCLOOXIGENASE PATHWAY
Tatjana Majkić, Marija Lesjak, Ljilja Torović, Neda Mimica-Dukic and Ivana Beara

P4-08  OPTIMIZED DENDRITIC CELL DIFFERENTIATION FROM PLURIPOTENT EMBRYONIC STEM CELLS BY RUNX3
János Varga, Tamás Imre Csuth and István Szatmári

P4-09  POTENT IMMUNOMODULATORY PINGUISANE-TYPE SESQUITERPENES FROM THE LIVERWORT PORELLA CORDAEANA (PORELLACEAE)
Nikola M. Stojanović, Niko S. Radulović, Sonja I. Filipović, Dragan B. Zlatković,
Miljana R. Đorđević, Pavle J. Randjelović, Katarina V. Mitić, Tatjana M. Jevtović-Stoimenov
and Vladimir N. Randelović
P4-10 TRANSCRIPTOME ANALYSIS OF HUMAN SYSTEMIC AUTOIMMUNE DISEASES COUPLED BY SINGLE CELL MASS CYTOMETRY IMMUNOPHENOTYPING
József Ágoston Balog, Gábor János Szebeni, Attila Balog, Laszló Kovács, Ágnes Zvara, Beata Kari and László G. Puskás

P5-01 A SYSTEMS BIOLOGICAL ANALYSIS OF AMPK-MTOR-ULK1 MODULE VIA CONTROLLING AUTOPHAGY
Marianna Holecz, Bence Hajdú, Gábor Bánhegyi and Orsolya Kapuy

P5-02 ACTIVATION OF MYOSIN PHOSPHATASES INCREASES THE CHEMOSENSITIVITY OF LEUKEMIC CELLS
Emese Tóth, Ferenc Erdődi and Andrea Kiss

P5-03 ANNEXIN A2 IS A NEW INTERACTING PARTNER OF TIMAP IN ENDOTHELIAL CELLS
Nikolett Király, Zsófia Thalwieser, Csilla Csortos and Anita Boratkó

P5-04 CHARACTERIZATION OF SACML PHOSPHATASE AND PI4P IN DAMI CELL LINE AND PRIMARY MOUSE MEGAKARYOCYTES
Ana Bura, Ivana Bertović, Julie Boscher and Antonija Jurak Begonja

P5-05 CROSSTALK BETWEEN NOTCH AND PARP PATHWAYS IN LYMPHOCYTES
Luka Horvat, Josipa Skelin, Mariastefania Antica and Maja Matulić

P5-06 DYNAMIC, CELL-BASED PROTEIN-PROTEIN INTERACTION SENSORS
Viktória Bílics, Gergő Gógl, Beáta Biri and László Nyitray

P5-07 FLOTILLIN-1 IS A NEWLY IDENTIFIED SUBSTRATE OF PP2A-B55
Zsófia Thalwieser, Nikolett Király, Csilla Csortos and Anita Boratkó

P5-08 INVESTIGATION OF THE ROLE OF SMOOTHELIN-LIKE PROTEIN 1 IN HYPERTHYROIDISM
Evelin Major, István Tamás, Dániel Horváth, Adrienn Sipos, Péter Fülöp, Ferenc Győri and Beáta Lontay

P5-09 LUTEOLIN INDUCES CYTOTOXICITY IN HUMAN CERVICAL CANCER CELLS THROUGH ACTIVATION OF MAPK SIGNALING PATHWAY
Iva Vukelić, Iva Potočnjak, Zlata Zaharija Ćućić, Ivana Gobin and Robert Domitrović

P5-10 LYSOPHOSPHATIDIC ACID BINDS TO THE SH2 DOMAIN OF NCK1 AND ABLE TO INHIBIT ITS BINDING TO ITS TARGET PHOSPHOPEPTIDE
Kitti Koprivanacz, Balázs Besztercei, Tünde Juhász, Balázs Merő, László Buday and Károly Liliom

P5-11 MITOGEN-ACTIVATED PROTEIN KINASE SIGNALLING IN THE MODEL UNICELLULAR MICROALGA, CHLAMYDOMONAS REINHARDTI
Tímea V. Nádai, Balázs Kalapos, Gábor Galiba, Katerina Bisova and Robert Dóczy

P5-12 MOLECULAR SURVEILLANCE RESPONSES UNDERLIE BENZALDEHYDE INDUCED AVERSION IN CAENORHABDITIS ELEGANS
Gábor Hajdú, István Taisz and Csaba Sőti
P5-13 NEW MECHANISMS OF GLUCOSE UPTAKE IN SKELETAL MUSCLE
Zoltán Márton Köhler, György Trenčsényi, László Dux and Anikó Keller-Pintér

P5-14 NIX PHOSPHORYLATION AND DIMERIZATION-TWO MECHANISMS OF MITOPHAGY ACTIVATION
Mija Marinković, Matilda Šprung, Vladimir Rogov, Volker Dötsch, Ivan Diķie and Ivana Novak

P5-15 REGULATION OF HEME OXYGENASE-1 EXPRESSION IN MACРОPHAGES DURING CLEARANCE OF APOPTOTIC CELLS
Éva Fige and Zsuzsa Szondy

P5-16 RETINOIC ACID DEPENDENT REPROGRAMMING IN NEURO- AND GLIOBLASTOMA CELL LINES
Luka Horvat, Martina Grubar, Mariastefania Antica, Josip Madunić and Maja Matulić

P5-17 STUDYING THE GENES OF PERK PATHWAY DURING ENDOPLASMIC RETICULUM STRESS
Margita Márton, Gábor Bánhegyi and Orsolya Kapuy

P5-18 SUPPRESSION OF AMPK BY NRF2 DOWNREGULATES AUTOPHAGY DURING PROLONGED OXIDATIVE STRESS
Anita Kurucz, Mónika Kosztelnik, Diána Papp, Emily Jones, Timea Sigmond, János Barna, Maria H. Traka, Tamás Lőrincz, András Szarka, Gábor Bánhegyi, Tibor Vellai, Tamás Korcsmaños and Orsolya Kapuy

P5-19 THE BACKGROUND OF THE INTERACTION BETWEEN SCAFFOLD PROTEIN TKS4 AND SRC KINASE
Metta Dülk, Bálint Szeder, Gábor Glatz, Balázs L. Merő, Kitti Koprivanacz, Gyöngyi Kudlik, Virág Vas, Anna Cserkaszy, László Radnai, and László Buday

P5-20 THE ROLE OF ADENOSINE A3 RECEPTOR SIGNALING IN APOPTOTIC CELL-DRIVEN CHEMOTACTIC MIGRATION
Beáta Kiss, Gergely Joós, Judit Jákim, Regina Szamosi, Gábor Nagy and Zsuzsa Szondy

P6-01 ANALYZING THE IMPORTANCE OF UBIQUITIN-DEPENDENT SELECTIVE AUTOPHAGY IN DROSOPHILA
Adél Ürmösi, Arindam Bhattacharjee, András Jipa and Gábor Juhász

P6-02 APOPTOTIC AND NECROTIC THYMOCYTES ARE ENGULFED BY THE SAME PHOSPHATIDYLSEERINE-DEPENDENT MECHANISMS
Zsófia Budai, Zsolt Sarang, László Ujlaky-Nagy, Nikoletta Kis Gréta, Miklós Antal and Zsuzsa Szondy

P6-03 EPIDIDYMAL FAT AND BEIGE CELLS OF TISSUE TRANSGLUTAMINASE KNOCK-OUT MICE POSSESS ATTENUATED RESPONSE TO ADRENERGIC AGONISTS
Kinga Lénárt, Endre Károly Kristóf, Zsolt Bacsó, Péter Bay, László Fésüs and András Mádi

P6-04 EPIGALLOCATECHIN-3-GALLATE MEDIATES ADIPOGENIC DIFFERENTIATION OF HUMAN MESENCHYMAL STEM CELLS BY REGULATION OF PROTEIN PHOSPHATASE-2A AND MYOSIN PHOSPHATASE
Bálint Bécsi, Zoltán Kónya, Anita Boratkó and Ferenc Erdődi

P6-05 IMPAIRED MYELOID DIFFERENTIATION FROM PLURIPOTENT EMBRYONIC STEM CELLS UPON ECTOPIC EXPRESSION OF ZBTB46
Pál Botó and István Szatmári
P6-06 Influence of epigenetic agents on mouse teratoma development in vitro
Jure Krasic, Robert Bužubasic, Maja Bužubasic, Maja Vlahovic, Ana Katusic, Florijana Bulic-Jakus and Nino Sincic

P6-07 Myoblast differentiation and fusion are influenced by the syndecan–4–mediated activation of Rac1 GTPase
Kitti Szabó, László Dux and Anikó Keller-Pintér

POSTER SESSION 2. - TUESDAY, SEPTEMBER 4, 2018
11:30 – 13:00

Poster mounting: September 2, 12:00 –; Removal: September 5, 12:00

P7-01 A comparative study of the mutagenic effect of platinum-based chemotherapeutic agents in cell line based model system
Bernadett Szikriszt, Ádám Póti and Dávid Szüts

P7-02 ATRX promotes DNA repair synthesis and sister chromatid exchange during homologous recombination
Szilvia Juhász, Amira Elbakry, Arthur Mathes and Markus Löbrich

P7-03 Cytochrome C oxidase activity and the expression of related copper chaperones in sclerotic hippocami of MTL patients
Milos Opačić, Maja Zorović, Danijela Savić, Marko Živin, Savo Raičević, Vladimir Baščarević, Aleksandar Ristić, Dragoslav Sokić and Ivan Spasojević

P7-04 Determination of genomic uracil levels in zebrafish during embryonic development
Kinga Nagy, Kornélia Kulesár, Dorottya Magyari, Máté Varga and Beáta G. Vértessy

P7-05 Investigation of the nucleotide metabolism of Mycobacterium smegmatis under different genotoxic stress conditions
Eva Viola Surányi, Tamás Trombitás, Nikoletta Gálik, Rita Hirmondó, Judit Eszter Szabó, Beáta G. Vértessy and Judit Tóth

P7-06 An improved and widely accessible dNTP quantitation tool
Judit Eszter Szabó, Bence Mébold, Viola Surányi, Beáta Vértessy, Mihály Cserepes, Gergely Szakács, Orsólya Dobay, Dóra Szabó and Judit Tóth

P7-07 Poly(ADP-ribosyl)ation-induced chromatin relaxation accelerates CHD4 recruitment facilitating further remodeling at DNA breaks
Rebecca Smith, Hafida Sellou, Catherine Chapuis, Sébastien Huet and Gyula Timinszky

P7-08 Protein interactions of wild-type P53 in human melanoma
Martina Radić, Nikolina Hanžić, Maja Herak Bosnar and Neda Slade
P7-09 SCHEDULE OF METASTASIS FORMATION AS REVEALED BY THE GENOMIC IMPRINTS OF MUTAGENIC CISPLATIN CHEMOTHERAPY AND THE SELECTION FOR Gefitinib RESISTANCE
Eszter Németh, Marcin Krzystanek, Lilla Reiniger, Zoltán Szállási, Judit Moldvay and Dávid Szüts

P7-10 THE ROLE OF NUCLEOTIDE EXCISION REPAIR PATHWAY IN THE REPAIR OF DNA-PROTEIN CROSSLINKS
Christine Supina and Marta Popovic

P7-11 TRANSLESION SYNTHESIS GENERATES EXCESS POINT MUTATIONS AND PROTECTS FROM DNA BREAKS IN THE ABSENCE OF BRCA1
Judit Z. Gervai, Chen Dan, Ádám Póti, Andrea L. Richardson and Dávid Szüts

P8-01 ATG9 IS AN AUTOPHAGY-INDEPENDENT REGULATOR OF THE ACTIN CYTOSKELETON
Viktória Kiss, Kata Varga, András Jípa, József Mihály and Gábor Juhász

P8-02 ESTABLISHING AND CHARACTERIZING A TRANSDIFFERENTIATION MODEL OF HUNTINGTON'S DISEASE PATIENTS' DERIVED FIBROBLAST TO NEURONS.
Azzam Aladdin, Róbert Király and Krisztina Tar

P8-03 INFLUENCE OF FISH OIL TREATMENT ON MICROGLIAL CELL BEHAVIOR AND DYSTROPHIC NEURITES IN 5XFAD MICE MODEL OF ALZHEIMER'S DISEASE
Milena Jović, Nataša Lončarević-Vasiljković, Sanja Ivković, Desanka Milanović, Vladimir Avramović and Selma Kanazir

P8-04 INTRAGANGLIONIC MACROPHAGES: A NEW POPULATION OF CELLS IN THE ENTERIC GANGLIA
Tamás Kovács, Dávid Dóra, Csilla Barad and Nándor Nagy

P9-01 AN EASY TO USE ASSAY TO PRESCREEN CAS9 TARGET SITES FOR EFFICIENT DNA-CLEAVAGE AND TO STUDY HOMOLOGOUS RECOMBINATION BASED DNA REPAIR
Sarah Laura Krausz and Ervin Welker

P9-02 DECOLORIZATION OF DYES BY ALGINATE IMMOBILIZED CELL WALLS OF SACCHAROMYCES CEREVISIAE WITH LACCASE FROM STREPTOMYCES CYANEUS
Nikolina Popović, Rađivoje Prodanović and Maja Mladenovic

P9-03 ERYTHROPOIETIN RECEPTOR-DISPLAYING PHAGE PARTICLES AS PROBES FOR DETECTION OF ERYTHROPOIETIN MIMETICS IN NOVEL ANTI-DOPING SCREENING PLATFORM
Peter Molek, Tomaž Bratkovič and Borut Štrukelj

P9-04 EVALUATION OF PGPR AND FUNGI AS BIOCONTROL AGENTS FOR IMPROVEMENT OF TOLERANCE AGAINST MITES INVASION IN SOYBEAN PLANTS
Ana Manojlović, Djordje Malenčić, Jovana Šučur, Simonida Djurić and Aleksandra Petrović

P9-06 POTENTIAL USE OF FUNGAL AND BACTERIAL AEGEROLYSINS AS PEST-CONTROLLING AGENTS
Maruša Novak, Anastasija Panevska, Teja Krpan, Margareta Mordej, Miha Pavšič, Maja Jamnik, Gregor Anderluh, Graziano Guella, Jaka Razinger and Kristina Sepčić
From molecules to living systems

P9-07 PRODUCTION AND APPLICATION OF THERMOSTABLE PROTEASE PERNISINE FROM AEROPIRUM PERNIX K1
Marko Šnajder, Miha Bahun, Luka Kranjc, Hrvoje Petković, Polona Juntes and Nataša Poklar Ulrih

P9-08 SURFACE ANCHORING ON LACTOCOCCUS LACTIS BY COVALENT ISOPERIDE BOND
Tina Vida Plavec and Aleš Berlec

P10-01 ANALYSIS OF HUMAN TRANSMEMBRANE PROTEINS IN PAIRED TUMOR AND NORMAL SAMPLES
Zsuzsanna Gergely and Gábor E. Tusnády

P10-02 NTYROSITE: COMPUTATIONAL IDENTIFICATION OF PROTEIN NITROTYROSINE SITES USING SEQUENCE EVOLUTIONARY FEATURES
Dianjing Guo, Mehide Hasan, Shamima Khatun and Nurul Haque Mollah

P10-03 EXTENDED BOOLEAN MODEL OF EPITHELIAL-TO-MESENCHYMAL TRANSITION
Nina Kunsic, Nóra Nikoletta Ordasi, Mátić Csigi, Réka Albert and Péter Csermely

P10-04 REWIRING OF RSK-PDZ INTERACTIONS BY LINEAR MOTIF PHOSPHORYLATION
Gergő Gógl, Beáta Biró-Kovács, Fabien Durbesson, Pau Jané, Yves Nominé, Camille Kostmann, Viktória Bilics, Márton Simon, Attila Horváth, Péter Csermely and László Nyitray

P10-05 THE ENTOPTLAYOUT CYTOSCAPE PLUG-IN FOR EFFICIENT VISUALIZATION OF MAJOR PROTEIN COMPLEXES IN NETWORKS
Andrea Császár, Bence Ágg, Máté Szalay-Bekő, Dániel V. Veres, Réka Mizsei, Péter Ferdinándy, Péter Csermely and István A. Kovács

P10-06 THE ROLE OF SYNDECAN-4 AND RAC1 GTPASE IN DIRECTIONAL AND RANDOM MIGRATION OF MYOBLASTS
Dániel Becsky, Szabol Kitti, Szuzina Gyulai-Nagy, Árpád Bálint, Péter Horváth, László Dux and Anikó Keller-Pintér

P11-01 BROWN ADIPOSE TISSUE THERMOGENESIS: RELATION TO CONSTITUTIVE DIFFERENCES IN SEROTONIN HOMEOSTASIS
Maja Kesić, Darko Kolarić, Petra Baković, Jasmina Štefulj and Lipa Čičin-Šain

P11-02 DETECTION OF METABOLIC PARAMETERS REVEALS INCREASED SENSITIVITY OF TISSUE TRANSGlutaminase KNOCK-OUT MICE TO THE ALPHA-ADRENERGIC AGONIST PHENYLEPHRINE
Kinga Lénárt, Attila Pap, László Fésüs and András Mádi

P11-03 DIFFERENT EFFECTS OF ATORVASTATIN AND SIMVASTATIN ON PLASMA FATTY ACID PROFILE IN RATS
Arsic Aleksandra, Petrovic Snjezana, Ristic Medic, Nikolic Tamara, Jakovljevic Vladimir and Vucic Vesna

P11-04 FUNCTIONAL AND MOLECULAR RESPONSE OF RATS WITH CONSTITUTIONALLY ALTERED SEROTONIN HOMEOSTASIS TO HIGH-FAT DIET
Petra Baković, Maja Kesić, Bastien Lucien Jean Proust, Jasmina Štefulj and Lipa Čičin-Šain

P11-05 INVESTIGATION OF THE SPECIFIC ROLE OF DTTP HOMEOSTASIS IN MYCOBACTERIAL CELL WALL BIOSYNTHESIS
Rita Hirmonndó, Bence S. Mébold and Judit Tóth
P11-06 LDL AND HDL SUBCLASSES IN METABOLICALLY HEALTHY AND UNHEALTHY OVERWEIGHT AND OBESE INDIVIDUALS
Jelena Janac, Aleksandra Zeljkovic, Jelena Vekic, Zorana Jelic-Ivanovic, Vesna Dimitrijevic-Sreckovic, Tamara Gojkovic, Vesna Spasojevic-Kalimanovska and Aleksandra Stefanovic

P11-07 LOSS OF TRANSGlutaminase 2 Sensitizes for the Development of Inflammation, Insulin Resistance and Hepatosteatosis in Mice Kept on High Fat Diet
Krisztina Köröskényi, Tibor Sághy, Antal Miklós, Krisztina Hegedűs and Zsuzsa Szondy

P11-08 LOSS OF TRANSGlutaminase 2 Sensitizes Mice Kept on High Fat Diet to Developing Obesity and Insulin Resistance
Tibor Sághy

P11-09 MODERATE TOXICITY OF TRANS FATTY ACIDS (TFAS), ELAIDATE AND VACCENATE IN RINM5F RAT INSULINOMA CELLS AND ITS CORRELATION WITH CERAMIDE AND DIGLYCERIDE ACCUMULATION
Farkas Sarnyai, Mária Berinkeiné Donkó, Judit Mátyási, Zsófia Gőr-Nagy, Ildikó Marczi, Laura Simon-Szabó, Veronika Zámbo, Anna Somogyi, Péter Szelényi, Blanka Tóth and Miklós Csala

P11-10 OXYGEN AVAILABILITY MAY AFFECT THERMOGENIC ACTIVATION OF HUMAN BEIGE ADIPOCYTES
Beáta B. Tóth, Rini Arianti, Anita Islai and László Fésüs

P11-11 PROTEOMIC INSIGHTS INTO CANCER-RELATED EXTRACELLULAR PROTEOLYSIS WITH CATHEPSIN K
Matej Vizovišek, Robert Vidmar, Barbara Sobotič, Lovro Kramer, Boris Turk and Marko Fonović

P11-12 QUANTITATIVE ANALYSIS OF DIGLYCERIDES AND CERAMIDES IN CELL CULTURES BY USING HPLC-MS/MS
Anna Somogyi, Mária Berinkeiné Donkó, Farkas Sarnyai, Zsófia Gőr-Nagy, Miklós Csala and Blanka Tóth

P11-13 SPECIFIC ZONAL LIPID ACCUMULATION IN THE LIVER OF ELDERLY RATS ON HFHS DIET TREATED WITH METFORMIN AND LIRAGLUtIDE
Senka Blažetić, Milorad Zjalić, Irena Labak, Vedrana Ivić, Alen Imširović, Róbert Gáspár, Sandor G Vari and Marija Heffer

P12-01 ABERRANT LIPID METABOLISM IN LUNG CANCER PATIENTS
Vesna Vučić, Ana Stojanović, Jasmina Debeljak-Martačić, Biljana Pokimica, Aleksandra Arsić, Snježana Petrović, Danijela Ristić-Medić and Marija Glibetić

P12-02 ANTI-MIGRATORY EFFECT OF METHANOL EXTRACTS OF P. FAURFURACEA AND P. GLAUCA ON COLORECTAL CANCER CELL LINES
Dragana S. Šeklić, Tatjana I.J. Mitrović and Snežana D. Marković

P12-04 CELL RESPONSE TO OXIME TREATMENT
Antonio Zandona and Maja Katalinić

P12-05 CHANGES IN SERUM FATTY ACIDS COMPOSITION IN PATIENTS AFTER LIVER TRANSPLANTATION
Maja Ćurić Delaš, Leda Borovac Štefanović, Jasna Aladrović, Marija Dedaš Aždajić, Željko Vidas, Branislav Kocman, Stipislav Jadrijević and Ivančica Delaš
P12-06 CROSS-TALK BETWEEN IRON HOMEOSTASIS AND THYROID HORMONES DURING PREGNANCY
Anelia Bivolarska, Ginka Delcheva and Ana Maneva

P12-07 CYSTEINE CATHEPSINS IN HIGHLY MALIGNANT BRAIN TUMOUR GliOBLASTOMA
Tamara Lah Turnšek, Barbara Breznik, Vashendriya Hira and Cornelis J. van Noorden

P12-08 DE NOVO EXPRESSION OF TRANSFECTED SIRT ENHANCES SUSCEPTIBILITY OF HUMAN MCF-8 BREAST CANCER CELLS TO HYPEROXIA TREATMENT
Marija Pinterić, Iva I. Podgorski, Sandra Sobocanec, Marijana Popović Hadžija, Mladen Paradžik, Ana Dekanić, Maja Marinović, Mirna Halasz, Robert Belužić, Grazia Davidović andreja Ambriović Ristov and Tihomir Balog

P12-09 DELPHINIDIN AGGRAVATES CISPLATIN-INDUCED NEPHROTOXICITY BY AUGMENTING RENAL OXIDATIVE STRESS, INFLAMMATION AND APOPTOSIS
Iva Potocnjak, Iva Vukelić, Jelena Marinić, Marko Škoda and Robert Domitrović

P12-10 EFFECTS OF RECREATIONAL SCBA DIVING ON PLASMA CONCENTRATION OF GALECTIN-3 AND CARDIAC DAMAGE MARKERS
Žarak Marko, Perović Antonija, Dobrović Irena, Šupraha Goreta Sandra and Đumić Jerka

P12-11 ELEVATED LEVEL OF DNA DAMAGE AND IMPAIRED DNA REPAIR IN PATIENTS WITH RHEUMATOID ARTHRITIS
Grzegorz Galita, Olga Brzezińska, Anna Lewandowska-Polak, Marta Poplawska, Joanna Makowska and Tomasz Popławski

P12-12 INSIGHTS INTO ORGAN-SPECIFIC CHANGES IN POTATO (SOLANUM TUBEROSUM L.) UPON POTATO SPINDLE TUBER VIROID INFECTION
Jasna Milanović, Jana Okleštкова, Ondřej Novák and Snježana Mihaljević

P12-13 INVESTIGATION OF BINDING PROPERTIES AND KINETICS OF DEAMIDATED GLIADIN PEPTIDE (DGP)-SPECIFIC ANTIBODIES OF CELIAC DISEASE PATIENTS
Ádám Csőke, Rita Elek, Ildikó Szabó, Róbert Király, László Fésüs and Ilma Korponay-Szabó

P12-14 IRISIN AND BMP7 INDUCE DISTINCT GENE EXPRESSION PATTERNS BUT NOT THE THERMOGENIC GENES IN HUMAN ADIPOCYTES FROM THE NECK
Abhirup Shaw, Beáta Bartáné Tóth, Rini Arianti, Attila Vámos, Ferenc Győry, Szilárd Póliska, Endre Károly Kristóf and László Fésüs

P12-15 KIT AND ERBB2 AS EMERGING BIOMARKER CANDIDATES IN HEPATOCELLULAR CARCINOMA
Otília Menyhárt, Ádám Nagy and Balázs Győrffy

P12-16 LOW INTENSITY EXERCISE IN THE PREVENTION OF DISTURBANCES IN CARDIAC INSULIN SIGNALING AND NO PRODUCTION IN INSULIN RESISTANCE MODEL
Jelena Stanišić, Goran Korćanac, Mojca Stojiljaković, Tijana Ćulafić, Milan Kostić, Snježana Romić, Marija Pantelić and Snežana Tepavčević
P12-17 PHYSICO-CHEMICAL PROPERTIES, ANTIOXIDANT CHARACTERISTICS AND TOTAL PHENOLIC CONTENT OF APIS MELLIFERA UNIFLORAL HONEYS
Drago Bešlo, Ana-Marija Crnoja, Ana Minark, Suzana Kristek, Bono Lučić

P12-18 QUANTITATIVE DETERMINATION OF MEMBRANE TRANSPORTERS IN RED BLOOD CELLS; IDENTIFICATION AND CHARACTERIZATION OF CLINICALLY RELEVANT GENETIC VARIANTS
Boglárka Zámbó, Orsolya Mózner, Zsuzsa Bartos, Edit Szabó, György Várady, László Homolya, Balázs Sarkadi

P12-19 SCREENING OF ANTIHORMONAL AND ANTICANCER POTENTIAL OF HETEROCYCLIC ESTRANE STEROIDS
Suzana Jovanović Šanta, Bianka Edina Herman, István Zupko, Ágnes Kulmány, Imre Ocsovszki, Andrea Nikolić, Marina Savić, Aleksandar Oklješa and Mihály Szécsi

P12-20 SILENCING OF RECQ1 HELICASE DECREASES THE TUMOUR GROWTH OF GLIOBLASTOMA CELLS IN A ZEBRAFISH EMBRYO XENOTRANSPLANTATION MODEL
Bernarda Majc, Miloš Vittori, Barbara Breznik and Tamara T. Lah

P12-21 T-CELL LYMPHOMA MARKERS
Petra Korać, Marija Klasić, Luka Tandarić, Vlatka Zoldoš and Mara Dominis

P12-22 THE IMPACT OF CYSTEINE PEPTIDASE CATHEPSIN X ON IMMUNOSUPPRESSIVE PROPERTIES OF MDSC
Tanja Jakoš, Urša Pečar Fonović, Urban Švajger, Anja Pišlar and Janko Kos

P12-23 THE INFLUENCE OF INSULIN ON ARTERIAL REACTIVITY VIA PERIVASCULAR ADIPOSE TISSUE (PVAT) IN RAT
Radoslava Emilova, Bilyana Ilieva, Daniela Dimitrova, Mitko Mladenov, Nikola Hadzi-Petrushev, Rudolf Schubert and Hristo Gagov

P12-24 THE POTENTIAL ROLE OF BILE ACIDS IN THE EPIGENETIC REGULATION AND PHARMACOLOGIC DNA DEMETHYLATION IN COLORECTAL ADENOCARCINOMA
Vanesa Sekeruš, Karmen Stankov, Vesna Kojić, Aleksandra Nikolić and Momir Mikov

P12-25 THERMOGENIC INDUCTION DOWNREGULATES MITOPHAGY IN HUMAN PRIMARY BEIGE ADIPOCYTES
Mária Szatmári-Tóth, Abhirup Shaw, Endre K. Kristóf, István Csomó, Zoltán Balajthy, Ferenc Gyööy and László Fésüs