

**18th International Symposium and Summer
School on Bioanalysis
June 25 – 30, 2018**

PROGRAM SCHEDULE

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Monday, June 25

13:00 Arrivals, registration
16:00 Opening Ceremony
16:20 Session I
18:00 Welcome Party, Conference Center of the J. Selye University (UJS)

Tuesday, June 26

07:30 – 08:45 *Breakfast*
09:00 – 11:45 Session II
10:30 – 10:45 *Coffee break*
11:45 – 13:00 *Lunch*
13:00 – 16:30 Session III
14:30 – 14:45 *Coffee break*
16:30 Visit to the Nanochemical and Supramolecular Laboratory of the UJS
17:30 – 18:30 *Dinner*

Wednesday, June 27

07:30 – 08:45 *Breakfast*
09:00 – 11:45 Session IV
10:30 – 10:45 *Coffee break*
11:45 – 13:00 *Lunch*
13:00 Excursion to popular tourist area Dobogókő & Cathedral of Our Lady of the Assumption and Saint Adalbert in Esztergom
18:30 Dinner with wine-tasting in the village Búcs

Thursday, June 28

07:30 – 08:45 *Breakfast*
09:00 – 11:45 Poster session
11:45 – 13:00 *Lunch*
13:00 Komárno – guided sight-seeing tour
17:30 – 18:30 *Dinner*
17:00 Coordination Meeting – Hotel Peklo

Friday, June 29

07:30 – 08:45 *Breakfast*
09:00 – 12:00 Session V
10:20 – 10:35 *Coffee break*
12:15 Closing Ceremony– Conference Center of UJS
12:45 *Lunch*

Saturday, June 30

09:00 – 12:15 Practical session
Departure

June 25, Monday

- 16:00-16:15 **Opening Ceremony**
- Session I**
16:20-16:55 *Chairman:* Ferenc Kilár
Róbert GYEPES
J. Selye University, Komárno, Slovak Republic
- L-01**
Diffraction in Chemistry
- 16:55-17:30 *Róbert MÉSZÁROS*
J. Selye University, Komárno, Slovak Republic
- L-02**
Nanotechnology Research in Komarno: Introduction to the Activities of the Supramolecular and Nanochemistry Laboratory of J. Selye University
- 18:00 Welcome Party

June 26, Tuesday

- Session II**
09:00 **Chairmen:** Eva Tesařova, Róbert Mészáros
Attila GÁSPÁR
Debrecen University, Debrecen, Hungary)
- L-03**
Instrumental analytical laboratory practices for many students
- 09:30 *Ewa POBOZY and Agata TERESZKIEWICZ*
University of Warsaw, Warsaw, Poland
- L-04**
Application of pseudostationary phases in capillary electrophoresis
- 10:00 *Gabriel HANCU, Hajnal KELEMEN, Aura RUSU, Blanka SZÉKELY-SZENTMIKLÓSI, Lajos Attila PAPP*
- L-05**
University of Medicine and Pharmacy from Tîrgu Mureş, Tîrgu Mureş, Romania
Applications of capillary electrophoresis for the analysis of pharmaceutical substances from fixed dose combinations used in cardiovascular diseases
- 10:30 Coffee Break
- 10:45 *S. DOBROVOLNY, R. HOCHEGGER, D. FEURLE, A. WANKA, I. NIKOLIKJ, K. ZAPPE, M. STOJKOVSKA, J. PETRESKA STANOEVA, M. STEFOVA, M. CICHNA-MARKL*
University of Vienna, Vienna, Austria
- L-06**
Food authentication by DNA barcoding and metabarcoding
- 11:15 *Nives GALIĆ*
University of Zagreb, Zagreb, Croatia
- L-07**
Spectroscopic properties of differently substituted aroylhydrazones
- 11:45 Lunch
- Session III**
Chairmen: Margit Cichna-Markl, Róbert Gyepes
- 13:00 *Anna KUBIAK, Andrija CIRIC, Magdalena BIESAGA*
University of Warsaw, Warsaw, Poland
- L-08**
Extraction and determination of bisphenol A in drinking water using Molecularly Imprinted Polymers
- 13:20 *Milan BOUBLÍK, Martina RIESOVÁ, Pavel DUBSKÝ, Bohuslav GAŠ*
Charles University in Prague, Prague, Czech Republic

- L-09** **Enhancement of conductivity detection of charged analytes by sweeping with neutral complexing agent in capillary electrophoresis**
- 13:40 *Gyöngyvér MARA, Annamária BECZE, Boglárka VINCZE, Csilla ALBERT*
Sapientia Hungarian University of Transylvania, Miercurea Ciuc, Romania
- L-10** **Screening silage bacteria for their antagonistic potential and antifungal compounds**
- 14:05 *Réka SINKLER, E. ANTAL, Zs. BODOR, Sz. LÁNYI, I. MIKLÓSSY*
Sapientia Hungarian University of Transylvania, Miercurea Ciuc, Romania
- L-11** **Expression, purification and enzymatic properties of alcohol/aldehyde dehydrogenases for application in metabolic engineering**
- 14:30 Coffee Break
- 14:45 *Zoltán I. SZABÓ, M. FOROUGHBAKHSHFASAEI, B. NOSZÁL, G. TÓTH*
University of Medicine and Pharmacy of Tîrgu Mureş, Tîrgu Mureş, Romania
- L-12** **Enantiomer elution/migration order as a function of experimental variables**
- 15:15 *Ioan Ovidiu NEAGA, Stephanie HAMBYE, Alexandra BARONI, Ede BODOKI, Bertrand BLANKERT, Radu OPREAN*
University of Medicine and Pharmacy, Cluj-Napoca, Romania
- L-13** **Screening drug candidates for myotonic dystrophy type 1: nucleic acid probe design and method development**
- 15:45 *Marina ČALOGVIĆ, Tihomir MARJANAC, Stjepko FAYINIĆ*
University of Zagreb, Zagreb, Croatia
- L-14** **Micro-analytical methods for the elemental analysis of micrometeorites and impact spherules**
- 16:30 Visit to the Nanochemical and Supramolecular Laboratory of the UJS

June 27, Wednesday

Session IV

Chairmen: Ewa Pobozy, Gábor Dibó

- 09:00 *Jasmina PETRESKA STANOEVA, Nina PENEVA, Marina STEFOVA, Margit CICHNA-MARKL*
- L-15** Ss Cyril and Methodius University, Skopje, Macedonia
Using polyphenolic profile to find markers for authentication of pomegranate fruits and their products
- 09:20 *Biljana BALABANOVA, Violeta IVANOVA-PETROPULOS, Trajče STAFILOV*
- L-16** Goce Delčev University, Stip, Macedonia
Evaluation of multi-element content and bioavailability records for various plant food due to the historical and present metal pollution exposure
- 09:50 *Trajče STAFILOV, Katerina BAČEVA ANDONOVSKA, Robert ŠAJN*
- L-17** Ss Cyril and Methodius University, Skopje, Macedonia
Distribution of heavy metals in environmental samples in the Allchar mine and it's environ
- 10:30 Coffee Break
- 10:45 *Ádám KECSKEMÉTI, Attila GÁSPÁR*
- L-18** University of Debrecen, Debrecen, Hungary
Analyses of peptides (and other molecules) by CZE-MS
- 11:05 *Malgorzata GWIAZDOŃ, Magdalena BIESAGA*
- L-19** University of Warsaw, Warsaw, Poland
Application of LC-MS/MS to metabolite profiling of in vivo transformation of polyphenols
- 11:25 *Marina STEFOVA, Liljana STAVERSKA, Martina BOGOJOVSKA, Jasmina PETRESKA STANOEVA*
- L-20** **Analytical Methodology for Establishing Polyphenolic Profiles of Honey as an Authentication tool**
- 11:45 Lunch

June 28, Thursday

09:00 – 11:45

Poster Session

Chairmen: Krisztina Bali, Attila Kardos

The authors are requested to be present at their posters during the Poster Session.

1. M. ANSORGE, J. ŠTEFLOVÁ, M. POCRNIĆ, A. MOLDOVAN, G. VIGH *Determination of isoelectric points for pI markers in capillary isoelectric focusing*
2. K. BALI, R. MÉSZÁROS
Preparation and surface modification of polyethyleneimine-capped gold nanoparticles
3. H. BARTOS, I. MIKLÓSSY, ZS. BODOR, M. BOTH-FODOR, SZ. LÁNYI
*In silico and in vivo investigation of high added-value components production in *Basfia succiniciproducens**
4. M. BUDĂU, G. HANCU, M. CÂRCU-DOBRIN, A. RUSU, D. L. MUNTEAN
Chirality study of modern antidepressants
5. M. CÂRCU-DOBRIN, G. HANCU, M. BUDĂU, Á. GYÉRESI
Development of a chiral discrimination method for amlodipine enantiomers from pharmaceutical formulations by capillary electrophoresis
6. M.D. CROITORU, I. FÜLÖP, E. FOGARASI, A.D. POP, N. NISTORESCU *Comparison between the nitrogen oxides inhaled when using regular cigarettes versus IQOS cigarettes (HEETS)*
7. L. DEUTSCH-NAGY, B. KOCSIS, F. KILÁR
Lipopolysaccharides and bacterial two-component system
8. SZ. VANCEA, E. FERENCZ, ZS. GÁLL, G. DONÁTH-NAGY
Determination of lacosamide in rat brain: adaptation of LC methods to microdialysates and homogenate samples
9. D. FEURLE, I. NIKOLIKJ, A. WANKA, K. ZAPPE, M. STOJKOVSKA, J. PETRESKA STANOEVA, M. STEFOVA, M. CICHNA-MARKL
*Authentication of Bilberries (*V. myrtillus*) in Raw and Processed Foodstuff*
10. E. FOGARASI, M. D. CROITORU, I. FÜLÖP, D. L. MUNTEAN
Reduced and total glutathione determination by a HPLC method from two different biological matrices
11. L.E. GLIGA, A. E. BODOKI, B.-C. IACOB, L. OPREAN, E. BODOKI, R. OPREAN
Pivot based molecular imprinting of atenolol for chiral separation
12. N. NÉMETHOVÁ, O. HEGEDŰS, K. SZARKA, M. HUGYIVÁROVÁ
Evaluation of the semi-quantitative method determination of vitamin C

13. V. IVANOVA-PETROPULOS, B. NECEV, E. LEITNER, T. STAFILOV, B. SIGMUND
HS-SPME-GC-MS determination of volatile components in toasted oak chips
14. V. IVANOVA-PETROPULOS, Z. NACEVA, V. SÁNDOR, L. MAKSZIN, L. NAGY, B. BERKICS, T. STAFILOV, F. KILÁR
CZE-ESI/QTOF-MS analysis of organic acids in red Vranec wines from different locations
15. A. KARDOS, I. VARGA
Preparation of Core/Shell Soft, Responsive Nanogel Particles
16. T. MADARÁSZ, K. TÜRMER, K. FUTÓ, E. TELEK, A. HENCZ, H. HALÁSZ, J. MATKÓ, M. NYITRAI, E. SZABÓ-MELEG
The role of IBAR and IRSp53 proteins in the formation of membrane nanotubes
17. E. MEZŐ, CS. PÁGER, F. KILÁR
Separation of Proteins by Capillary Zone Electrophoresis Using Ionic Liquids as Dynamic Coating and Running Electrolyte
18. C. NAGY, A. KECSKEMÉTI, A. GÁSPÁR
Development of microfluidic chips with increased specific surface area
19. R. SZABÓ, H. PETRUT, Á. ZSEBE, Á. FARKAS, B. ZSEBENYI, G. DOBAI, D. DEEMTER
The preparation of hydroxyapatite in laboratory using "IoT" for pH and temperature control, and the monitorization of adsorption/desorption
20. M. POČRNÍČ, M. DOVHUNOVÁ, M. ANSORGE, E. TESAŘOVÁ, N. GALIĆ
High performance liquid chromatography method for enantiomeric separation of beta-blockers
21. M. POČRNÍČ, D. KONTREC, A. BUDIMIR, N. GALIĆ
Interaction of aromatic hydrazones and selected lanthanides
22. P. SALAMON, M. BOTH-FODOR, R. SINKLER, B. ALBERT, ZS. BODOR, I. MIKLÓSSY
RT-qPCR analysis of E. coli strains obtained by metabolic engineering
23. Ș. STĂCESCU, C. ȘOICA
The potential adulteration of dietary supplements with anorexigenic amphetamines
24. I.A. STOIAN, B.C. IACOB, E. BODOKI, R. OPREAN
Impedimetric chiral discrimination of propranolol using cysteine as chiral selector
25. D. REMÉNYSÉG, O. HEGEDŰS, K. SZARKA, A. VARGOVÁ, M. ŠLOSÁR
Evaluation of antioxidation capacity of selected vegetable species
26. L. UNCU, E. NICOLAI, S. PARI, O. VÍSLOUH, V. VALICA
Modification of pH in the preformulation of combined ear drops with ciprofloxacin
27. F. MACAEV, S. POGREBNOI, V. BOLDESCU, A. UNCU, V. VALICA, L. UNCU
Analysis of Tryptanthrin Analogs Activity Against Mycobacteria
28. A. WANKA, D. FEURLE, K. ZAPPE, M. STOJKOVSKA, J. PETRESKA STANOJEVA, M. STEFOVA, M. CICHNA-MARKL
Differentiation of American Cranberry, Common Cranberry and Lingonberry by DNA Barcoding and High Resolution Melting (HRM) Analysis

June 29, Friday

Session V

Chairmen: Katarína Szarka, Attila Gáspár

- 9:00 *Tímea KACSÓ, Attila GÁSPÁR, Radu OPREAN, Ede BODOKI*
University of Debrecen, Debrecen, Hungary)
- L-21 Complementary methods for the assessment of zein nanoparticles proteolysis**
- 9:20 *Maria KALTENBRUNNER, W. MAYER, R. HOCHEGGER, Margit CICHNA-MARKL*
University of Vienna, Vienna, Austria
- L-22 Differentiation between wild boar and domestic pig in food products using real-time PCR**
- 9:40 *Gábor DIBÓ, György JUHÁSZ*
J. Selye University, Komárno, Slovak Republic
- L-23 Green chemistry: from kindergarten to high-school level**
- 10:00 *Joanna GASIK, Malgorzata GWIAZDOŃ, Dorota KORSAK, Slavomir PIKUŁA, Magdalena BIESAGA*
University of Warsaw, Warsaw, Poland
- L-24 Application of LC-MS/MS to in vitro study of phenolic acids degradation in the presence of probiotics**
- 10:20 Coffee Break
- 10:35 *Monika GANECZKO, Bartłomiej WITKOWSKI, Magdalena BIESAGA, Tomasz GIERCZAK*
University of Warsaw, Warsaw, Poland
- L-25 Identification of degradation products of red natural dyes by hydroxyl radicals**
- 10:55 *K. ZAPPE, R.W. QIU, A. BÖHM, S. SPIEGL-KREINECKER, M. CICHNA-MARKL*
University of Vienna, Vienna, Austria
- L-26 Optimization and validation of assays for the determination of the DNA methylation status in regulatory regions of MGMT**
- 11:15 *Csilla ALBERT, Zsolt. BODOR, Levente SIMÓ, Gyöngyvér MARA*
Sapientia Hungarian University of Transylvania, Miercurea Ciuc, Romania)
- L-27 Characterization of lactic acid production using *Lactobacillus casei* B-26 strain in different growth conditions**
- 11:35 *Ferenc KILÁR, Ágnes DÖRNYEI, Anikó KILÁR, Viktor SÁNDOR, Lilla MAKSZIN, Béla KOCSIS*
University of Pécs, Pécs, Hungary
- L-28 New results in the elucidation of lipopolysaccharide structures**
- 12:15 Closing the Symposium
- 12:45 Lunch

June 30, Saturday

- 09:00 – 12:15 Practical session
Departure