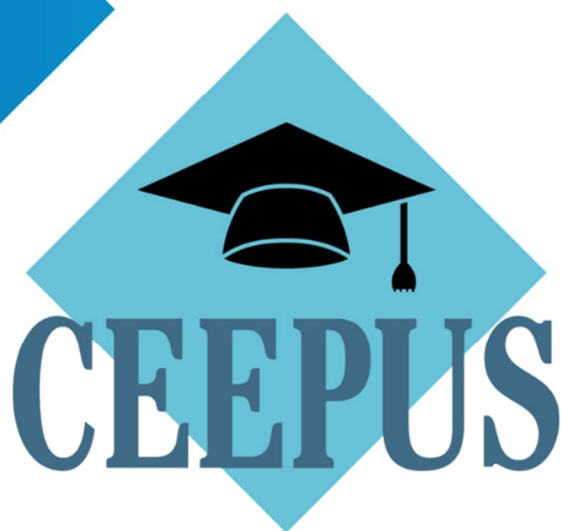


20th International
Symposium and
Summer School on
Bioanalysis

Conference Book

Pécs, Hungary

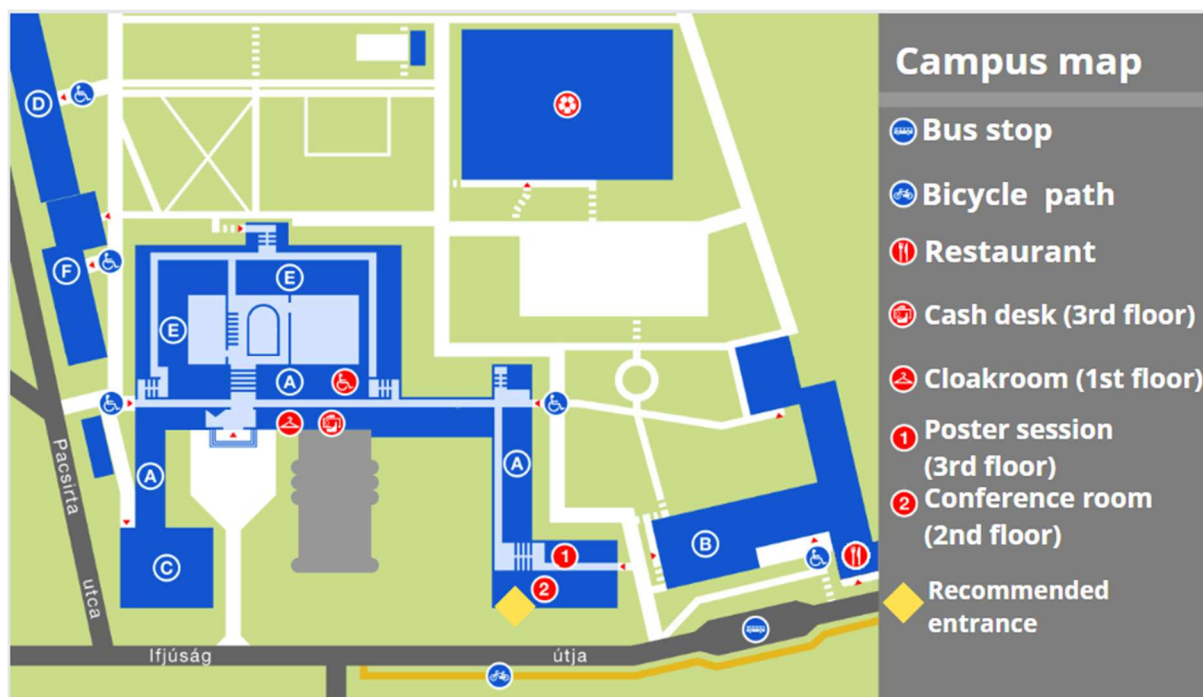
24-30 June 2022



Venue

The symposium will be held at the University of Pécs, Faculty of Sciences.
Lectures will take place in the Vargha Damján Conference Hall.

7624 Pécs, Ifjúság útja 6., Building B



Restaurant

Welcome dinner, Lunches and Dinners will take place at the Paulus Restaurant
7624 Pécs, Ifjúság útja 4.

Accommodation

Hotel Laterum: 7633 Pécs, Hajnóczy József utca, 37-39. +36-72-252108

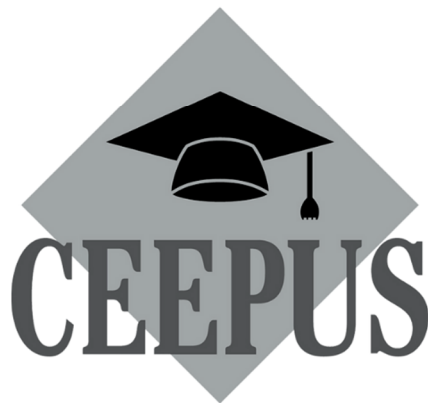
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<http://bioanalitika.aok.pte.hu/meetings/SummerSchool2022/SummerSchool2022.html>

Sponsors

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Laura Nagy
Ferenc Kilár

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Dóra Németh-Hidegkuti
Dóra Zelenyánszki
Martin Kőrösi
Viktor Sándor
Tamara Papp

Greetings

Dear Colleagues,

On behalf of the Organizing Committee, we are glad to present you the Conference Book of the 20th International Symposium and Summer School on Bioanalysis.

The meeting, which is held annually, provides a unique opportunity to collaborate with colleagues from around Europe, to share ideas and expertise, while enabling the development of science and skills within this research field.

Bioanalysis is a developing area which has grown significantly in the last decades, especially due to the advances in modern biochemistry and new analytical tools. It provides a theoretical framework for analyzing, interpreting and understanding biological data acquired from biological experiments. Bioanalysis provides tools for solving real world problems.

The summer school will concentrate on teaching and learning bioanalysis by discussing the different scientific results of the participants. The 24-year-long history of the Network has included common work on the development and application of various bioanalytical methodologies. The lectures and seminars will focus on the education of the appropriate methods applied for important recent areas, such as the follow up of the global pandemic and the post-COVID-19 era, together with approaches to all adequate bioanalytical questions.

The scope of the symposium and summer school is to cover the whole spectrum of bioanalysis, instrumental analysis, biotechnology, medical and pharmaceutical analysis, environmental analysis, which are related to the special educational and research activities of the participants.

The symposium offers a front-row seat to the exciting developments in this field and puts forward the state-of-the-art in this scientific area.

We expect this conference to be beneficial in terms of knowledge, creativity and future collaborations.

The Organizing Committee

Scientific Committee

Ferenc Kilár (Chairman) (University of Pécs, Pécs, Hungary)
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Violeta Ivanova-Petropulos (Goce Delčev University, Stip, North Macedonia)

Scientific Program

June 24, 2022 - Friday

17:30 Welcome dinner at Paulus Restaurant

June 25, 2022 - Saturday

08:30-11:00 Registration Desk open

09:00-09:15 Opening of the 20th International Symposium and Summer School

Session 1

Chairman: Ferenc Kilár

09:15-09:40 *Ede Bodoki, Bogdan Iacob, Radu Oprean**

L1 **QA benchmarking of bioanalytical bachelor programs. We have 2 and/or we need it?**

09:40-10:05 *Florin-Dan Irimie*, Adriana Gog, Mihai Lacatus, Csaba Paizs, Monica Tosa*

L2 **Biodiesel, a greener and a greener fuel**

10:05-10:30 *Gabriella Donáth-Nagy*

L3 **Periodic phenomena and pattern formation in chemical and biological systems**

10:30-11:00 ***Coffee Break***

11:00-11:25 *Dashnor Nebija*, Attila Gáspár, Blerta Pajaziti, Melinda Andrási, Blin A.*

L4 *Pajaziti, Rumenka Petkovska*
Quality evaluation of biologicals

11:25-11:50 *Gyöngyvér Mara*, Annamária Becze, Éva-Boglárka Vincze, Pál Attila*

L5 *Salamon*
A comparative study of MALDI-TOF MS and 16S rDNA identification of PGPR bacteria

11:50-12:15 *Emese Éva Bálint**, *Szilvia László*, *Gellért Tompos*, *Pál Attila Salamon*
L6 **General aspects on SARS CoV-2 detection. A two-year-summary**

12:15-14:00 *Lunch at Paulus Restaurant*

13:30-14:00 ***Poster Session I***

P1 *Melinda Urkon**, *Adelina Suceava*, *Gabriella Donáth-Nagy*, *Elek Ferencz*,
Zoltán-István Szabó
Renewal of an old compendial method for the determination of the related substances of dalfampridine

P2 *Laura Nagy**, *Péter Urbán*, *Lilla Makszin*, *Viktor Sándor*, *Béla Kocsis*, *Ferenc Kilár*
Regulation of lipopolysaccharide biosynthesis by bacterial two-component systems

P3 *Elisabeth Seibert**, *Else Mader*, *Klaudia Tutaj*, *Martin Schmid*
A protein-based approach for the enantioseparation of amphetamine derivatives via HPLC-UV

P4 *Blerta Pajaziti**, *Melinda Andrási*, *Dashnor Nebija*, *Blin Pajaziti*, *Rumenka Petkovska*, *Attila Gáspár*
Analysis of insulin formulation by capillary electrophoresis

P5 *Viktor Sándor**, *Anikó Kilár*, *Bettina Ürmös*, *Ibrahim Aissa*, *Ágnes Dörnyei*
Characterization of isomeric lipid A species from *Pseudomonas aeruginosa* by non-aqueous CE-MS/MS with collision-induced dissociation

P6 *Marijana Pocrnić**, *Ivana Tartaro Bujak*, *Nives Galić*
HRMS characterization of doxazosin degradation products generated by gamma irradiation

P7 *Bogdan-Cezar Iacob**, *Laura-Elena Gliga*, *David A. Spivak*, *Ede Bodoki*, *Radu Oprean*
Analytical perspectives in the study of oligonucleotides interactions

P8 *Ruben Szabó**, *Attila Gáspár*
Determination of phenolic compounds using capillary zone electrophoresis coupled to mass spectrometry

- P9 *Mária Cs. Csányi**, Pál Salamon, Tímea Feller, Tamás Bozó, Jolán Hársfalvi, Miklós S.Z. Kellermayer
Force dependent multimer glycoprotein elongation
- P10 *Eva-Maria Hubner**, Helena Vidovic, Martin G. Schmid
Cellulase from *Trichoderma reesei* as pseudo-stationary phase for chiral separation in CE for chiral separation of amphetamine derivatives
- P11 *Levente Simó**, Zsolt Bodor, Róbert Szép, Ildikó Miklóssy, Gyöngyvér, Mara, Szende Ágnes Tonk, Ágnes Keresztesi, Katalin Bodor, Andrea Fikó
Participatory study of chemical and biological characteristics and public health aspects of fog and precipitations in closed basins of Harghita County (Romania)
- P12 *Elek Ferencz**, Gergő Tóth, Arnold Zöldhegyi, Emese Sipos, Gabriella Donáth-Nagy, Zoltán-István Szabó
Stationary phase independent chromatographic method for the separation of ezetimibe and its related substances
- P13 *Jolán Hársfalvi*
Link between bioanalysis and biophysics
- P14 *Iva Pukleš**, Nikola Sakač, Brunislav Matasović, Bojan Šarkanj, Marija Jozanović
Development of high-resolution microfluidic method for fast determination of L-histidine and β -Alanine in dietary supplements formulations
- P15 *David Klarić**, Nives Galić
Influence of β -cyclodextrin and its various derivatives on cinnarizine solubility in water
- P16 *Ionuț Leva**, Bogdan-Cezar Iacob, Rebeca Magda, Radu Oprean, Ede Bodoki
Molecularly imprinted polymer-based EC-SERS spectroelectrochemical detection of moxifloxacin
- P17 *Ecaterina Mazur**, Diana Shepel, Vladimir Valica, Vladilena Gandacov, Livia Uncu
The compatibility studies between excipients and active substances in powder dosage form used in hypopotassemia by FT-IR analysis

Session 2

Chairman: Martin Schmid

- 15:00-15:15 *Narmin Hamidli**, *Melinda Andrási*, *Blerta Pajaziti*, *Cynthia Nagy*, *Attila Gáspár*
L7
Analysis of intact proteins with capillary zone electrophoresis coupled to mass spectrometry using uncoated and coated capillaries
- 15:15-15:30 *Cynthia Nagy**, *Ruben Szabó*, *Róbert Huszánk*, *Attila Gáspár*
L8
Development and application of microfluidic immobilized enzymatic reactors
- 15:30-15:45 *Alexandra I. Bărăian**, *Bogdan C. Iacob*, *Olga Sorițău*, *Sergiu Șuşman*, *Ede Bodoki*
L9
Molecularly imprinted polymer-based drug delivery system for the sustained release of ruxolitinib in cancer therapy
- 15:45-16:00 *Kamil Bortka**, *Beata Krasnodebska-Ostrega*
L10
Biochar as the "green" tool in soil remediation
- 16:00-16:15 *Lawrence K. Muthuri**, *Livia Nagy* and *Géza Nagy*
L11
Comparison of measured and simulated calibration curves of a novel chronopotentiometric antioxidant measurement method
- 17:00 **Dinner at Paulus Restaurant**
- 18:00 **Coordinator's Dinner MTA PAB Székház - Pécs – Regional Committee of the Hungarian Academy of Sciences**
7624 Pécs, Jurisics Miklós u. 44.

June 26, 2022 - Sunday

- 10:45 **Departure to Siklós Castle**
Meeting at the Hotel
- 15:00 **Visit at Nagyharsány sculpture park**
- 17:00 **Bioanalysis of fermentation at Blum Cellar, Villánykövesd (Dinner)**

June 27, 2022 - Monday

Session 3

Chairman: Ferenc Kilár

10:00-10:25 *Miklós Kellermayer*

L12 **Viral nanoanalytics**

10:25-10:50 *Martin G. Schmid*, Eva-Maria Hubner, Elisabeth Seibert*

L13 **Achiral and chiral analysis of illicit drugs and designer drugs**

10:50-11:15 *Katja Zappe, Margit Cichna-Markl**

L14 **Increasing the power of discriminating SNP genotype combinations by coupling high resolution melting analysis to pyrosequencing**

11:15-11:40 *Narmin Hamidli, Melinda András, Blerta Pajaziti, Cynthia Nagy, Attila Gáspár**

L15 **Intact protein analysis by capillary zone electrophoresis – mass spectrometry**

11:40-12:05 *Melinda András*, Gyöngyi Hunya, Zsófi Sajtos, Attila Gáspár*

L16 **Analysis of honey samples by capillary electrophoresis using fluorescent detection**

12:05-14:00 **Lunch at Paulus Restaurant**

13:30-15:00 ***Poster Session II***

P18 *Mihaela Teriș*, Manuela Zagrean, Maria Suci, Alexandra Pusta, Cecilia Cristea*

Design of innovative nanostructured platforms for the electrochemical detection of gluten

P19 *Cadmiel Moldovan*, Frumuzachi Oleg, Păltinean Ramona, Gianina Crișan, Andrei Mocan*

Process optimization for ultrasound-assisted extraction of bioactive compounds from *Allium ursinum* leaves

P20 *Ibrahim Aissa*, Ágnes Dörnyei, Viktor Sándor, Anikó Kilár*

Workflow for structural elucidation of protonated and disodiated lipid A molecules using low energy CID tandem mass spectrometry

- P21 *Maria-Bianca Irimeş*, Diana-Gabriela Macovei, Oana Hosu, Mihaela Terțiș, Radu Oprean, Cecilia Cristea*
Direct electrochemical detection of kynurenic acid in biological samples - a step towards point-of-care diagnosis
- P22 *Teodora Lupoi*, Denisa Capatana, Bogdan Feier, Cecilia Cristea*
Aptamers as biorecognition elements for the electrochemical detection of quorum sensing molecules
- P23 *Julia Säckler*, Kristina Gense, Verena Peterseil, Alma Licina, Martin Wagner, Margit Cichna-Markl, Stefanie Dobrovolny, Rupert Hochegger*
Development of a DNA metabarcoding assay for species identification of edible *mollusca*
- P24 *Paula Podea*, Alexandra Candale, Anca Anghel, Robert Tötös, Florin Dan Irimie*
Enzyme assisted extraction of avocado(*Persea Americana* Mill) seeds
- P25 *Anikó Kilár*, Ágnes Dörnyei, Aissa Ibrahim, Viktor Sándor*
NACE-ESI-MS/MS method for the separation and characterization of phosphate and acyl chain positional isomers of bacterial lipid A
- P26 *Anna Harsányi, Attila Kardos*, Imre Varga*
Preparation of advanced intelligent materials by chemical modification of carboxylic acid groups of pNIPAm copolymer microgels
- P27 *Vladilena Gandacov*, Ecaterina Mazur, Livia Uncu*
Pharmaceutical availability study of the combined capsules using dissolution test
- P28 *Magdolna Casian*, Oana Hosu, Geanina Ștefan, Ioana Manea, María Jesús Lobo Castañón, Noemí de-los-Santos-Álvarez, Cecilia Cristea*
ssDNA aptamer selection for glycopeptide antibiotics
- P29 *Branislav Žabenský*, Róbert Bodor, Marián Masár*
Determination of trace perchlorate in radish samples by on-line combination of capillary isotachopheresis and zone electrophoresis
- P30 *Alexandra Pusta*, Mihaela Terțiș, Rodica Turcu, Ladislau Vekas, Cecilia Cristea*
Characterization of aptamer-functionalized magnetic nano-carriers for the targeted treatment of hepatocellular carcinoma
- P31 *Jozef Tuček*, Radoslav Halko, Katarína Chovancová, Denis Pavelek*
Simultaneous determination of several cytostatic compounds in sewage sludge and sediment by combination of microwave-assisted extraction and UHPLC-MS/MS

- P32 *Marta Ďuriš**, *Jasna Hradski*, *Roman Szucs*, *Marián Masár*
Novel hyphenation of microchip isotachopheresis with ion mobility spectrometry for the analysis of complex samples
- P33 *Bartos Hunor**, *Salamon Rozália-Veronika*, *Albert Csilla*, *Laslo Éva*, *Orbán Csongor*
Apple vinegar production using wild apple vinegar bacterial consortia
- P34 *Collins Anditi**, *Dénes Szerencsés*, *István Szabó*, *Mátyás Wahr*, *Viktória Poór*, *Tímea Dergez*
Determination of PAH contamination levels in breast milk samples from Hungarian volunteering mothers using HPLC/FLD
- P35 *Fruzsina Balogh-Hartmann**, *Ibolya Madarász-Horváth*, *Tamás Marosvölgyi*, *Lilla Makszin*
Modern microfluidic analysis for determination of the protein content in different types of plant-based drinks

Session 4

Chairman: Tomáš Křížek

- 15:00-15:25 *Róbert Tóth**, *Laura-Edit Barabás*, *Krisztián-András Gál*, *Csaba Paizs*,
 L17 *Florin-Dan Iimie*
From scratch to batch. Monitoring enzymatic synthetic pathways
- 15:25-15:40 *Horia Duță**, *Alina Filip*, *Emma Zsófia Aletta Nagy*, *László Csaba Bencze*,
 L18 *Florin Dan Irimie*
Bioanalysis in the rational design of ferulic acid decarboxylase variants
- 15:40-15:55 *Alexander Petritsch**, *Stefanie Dobrovolny*, *Margit Cichna-Markl*, *Verena*
 L19 *Peterseil*, *Elisabeth Muck*, *Rupert Hochegger*
Primers for authentication of a wide range of food plant species using DNA metabarcoding
- 15:55-16:10 *Ivona Sofronievska**, *Marina Stefova*, *Jasmina Petreska Stanoeva*, *Jane*
 L20 *Bogdanov*
Comparison of active and passive air sampling for analysis of semivolatile organic compounds near a HCH dumpsite
- 16:10-16:25 *Tomáš Křížek*, *Alice Tomnikova**
 L21 **Development of capillary electrophoresis method with LIF detection for characterization of liposomes**
- 17:00 **Dinner at Paulus Restaurant**

June 28, 2022 - Tuesday

Session 5

Chairman: Ferenc Kilár

09:00-09:25 *Marián Masár*, Jasna Hradski, Peter Troška, Roman Szucs*
L22 **The use of microchip electrophoresis in bioanalysis**

09:25-09:50 *Marina Stefova*, Viktor Damjanovski, Jasmina Petreska Stanoeva, Margit Cichna Markl*
L23 **Anthocyanin fingerprinting as an authentication tool for blueberry, aronia and pomegranate juices**

09:50-10:15 *Ewa Pobozy*
L24 **Phthalates – health and environmental concerns**

10:15-10:45 **Coffee Break**

10:45-11:10 *Violeta Ivanova-Petropulos*, Sanja Durakova, Arianna Ricci, Giuseppina P. Parpinello, Andrea Versari*
L25 **Chemical and phenolic profile of Stanušina red wines determined by HPLC-DAD**

11:10-11:35 *Tomáš Křížek*, Kateřina Čokrtová*
L26 **On-capillary derivatization of saccharides for CE-LIF**

11:35-12:00 *Květa Kalíková*, Zuzana Kadlecová, Martin Gilar*
L27 **Analysis of phosphorothioate oligonucleotides by ion-pairing reversed-phase liquid chromatography**

12:00-13:30 **Lunch at Paulus Restaurant**

Session 6

Chairman: Ede Bodoki

13:30-13:55 *Jasna Hradski*, Marta Ďuriš, Roman Szucs, Marián Masár*
L28 **Miniaturized electrophoretic techniques coupled with ion mobility spectrometry for the analysis of carboxylic acids in liquid samples**

- 13:55-14:10 *Alexandra Canciu**, *Mihaela Tertis*, *Oana Hosu*, *Andreea Cernat*, *Bogdan L29 Feier*, *Cecilia Cristea*
Diagnosis of pathogen bacteria with electrochemical Sensors
- 14:10-14:25 *Denisa Căpățină**, *Teodora Lupoi*, *Bogdan Feier*, *Cecilia Cristea*, *Radu L30 Oprean*
Electrochemical sensors based on aptamers and molecularly imprinted polymers for the detection of quorum sensing molecules in *Pseudomonas aeruginosa*
- 14:25-14:40 *Marinela Cvetanoska**, *Jasmina Petreska Stanoeva*, *Marina Stefova L31*
Extraction and clean-up strategies for the analysis of pyrrolizidine alkaloids in honey samples
- 14:40-15:00 **Coffee Break**
- 15:00-15:15 *Zuzanna Górska**, *Beata Krasnodębska-Ostręga L32*
Analysis of leaching of chromium from leather products – chromium speciation
- 15:15-15:25 *Szabolcs I. Győrfi**, *Rebeca Moldovan*, *Bogdan C. Iacob*, *Ede Bodoki L33*
Electrochemical MIP Sensor for Thiabendazole Detection at Indole-3-acetic Acid Modified Gold Electrodes
- 15:25-15:40 *Rebeca Moldovan**, *Karolina Milenko*, *Elizaveta Vereshchagina*, *Bogdan- L34 Cezar Iacob*, *Kenneth Schneider*, *Cosmin Farcău*, *Ede Bodoki*
Spectroelectrochemical detection of thiabendazole residues in fruit juice
- 15:40-15:55 *Katarína Molnárová**, *Aleš Ďuriš*, *Tomáš Ječmen*, *Petr Kozlík L35*
Hydrophilic Interaction Liquid Chromatography in the separation of glycopeptides
- 15:55-16:10 *Aleksandar Piperevski**, *Violeta Ivanova Petropulos*, *Viktor Sándor*, *Ferenc L36 Kilár*
Study of the phenolic profile of Vranec and Merlot wines produced under different vinification conditions
- 17:00 **Dinner at Paulus Restaurant**

June 29, 2022 - Wednesday

Session 7

Chairman: Ferenc Kilár

- 09:00-09:25 *Nives Galić*
L37 **Investigation of praziquantel/cyclodextrin inclusion complexation**
- 9:25-9:50 *Cornelia Fursenco*, Tatiana Calalb, Livia Uncu**
L38 **The phytochemical profile of Solidago species from the Republic of Moldova flora'**
- 09:50-10:15 *Tamara Pajpanova*
L39 **Peptides and peptide mimetics: Potential tools for therapy**
- 10:15-10:45 **Coffee Break**
- 10:45-11:10 *Jasmina Petreska Stanoeva*, Elena Stefova, Marinela Cvetanoska, Jane Bogdanov, Vlado Matevski*
L40 **Assessment of distribution and diversity of pyrrolizidine alkaloids in the most prevalent Boraginaceae species in Macedonia**
- 11:10-11:35 *Galina Radeva*
L41 **Molecular approaches in microbiome research: Best practices**
- 11:35-12:00 *Ede Bodoki*
L42 **Molecular imprinting in electroanalysis. News and trends**
- 12:00-12:15 **Summary of the Summer School**
- 12:30 **Lunch at Paulus Restaurant**

June 30, 2022 - Thursday

- 09:00-12:00 *Workshop*

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