

1st International Meeting for Young Analytical Chemists 27-28th September 2021



## FRIDAY, 24th September 2021



10:00 - 11:00 Microsoft Teams Test Session

17:00 - 18:00 Microsoft Teams Test Session

# MONDAY, 27th September 2021



**9:30** Opening ceremony



9:45 Opening lecture

Witold Reczyński My Hobby



**10:15** Coffee break + discussion

#### 1<sup>st</sup> Plenary Session - Separation techniques (chairperson: Anna Górska)

<b>i</b>	10:30	Alice Šimonová Prague, Czech Republic	Capillary electrophoresis method for analysis of monosaccharides found in glycopeptides		
	10:45	Kateřina Čokrtová Prague, Czech Republic	Online labelling of monosaccharides for capillary electrophoresis		
	11:00	Anastasia Kravchenko St. Petersburg, Russia	The electrophoretic separation of biologically active compounds with using modifiers based on imidazolium cation		
	11:15	Daria Janiszewska Toruń, Poland	Determination and identification of antibiotic drugs and bacterial strains in post-operative wounds		



**11:30** Coffee break+ discussion

#### **2**<sup>nd</sup> **Plenary Session** – **Electrochemistry** (chairperson: Szymon Wójcik)

	12:00	Marlena Martyna Lublin, Poland	The catalytic influence of 2-thiocytosine on the electroreduction of Bi(III) ions in chlorates (VII) solutions with varied water activity; application of the R-AgLAFe electrode			
i	12:15	Karolina Pietrzak Lublin, Poland	Influence of the doped ion on the properties of polyaniline nanofibers and the parameters of solid contact ion-selective electrodes based on them			
	12:30	Sara Guerrero Madrid, Spain	Electrochemical immunosensors for monitoring autoimmune diseases biomarkers			
	12:45	Sofiia Tvorynska Prague, Czech Republic	Flow amperometric biosensors based on the enzymatic mini-reactor and silver solid amalgam electrode			



**13:00** Lunch break + discussion

## **Poster session** (chairpersons: Katarzyna Jedlińska and Nikola Lenar)

	14:00	Adrian Gołębiowski Toruń, Poland	Determination of silicon and cadmium concentrations in Pea plant			
	14:05	Daria Janiszewska Toruń, Poland	Application of MIP-SPME-LC/MS for the therapeutic drug monitoring in biological samples from patients in the intensive care unit			
	14:10	Ewelina Maślak Toruń, Poland	Study of the of bacteria viability treated with an antibiotic by using capillary zone electrophoresis and flow cytometry approaches			
	14:15	Agnieszka Rogowska Toruń, Poland	Investigation of the protein interactions with metal ions			
	14:20	Yulia Maksimova Moscow, Russian Federation	Procedure design of sorption preconcentration of high-field-strength elements for routine ICP-MS analysis of ultramafic rocks			
	14:25	Jacek Sikorski Warszawa, Poland	Application of CE-ICP-MS/MS for investigation of Fe <sub>3</sub> O <sub>4</sub> nanoparticles and human serum proteins interactions			
	14:30	Anna Król-Górniak Toruń, Poland	Determination of the zinc-casein binding using CE-ICP-MS			
	14:35	Jakub Lisiecki Lublin, Poland	Halogenated PAHs in the Ullmann on-surface reaction - theoretical model			
	14:40	Paloma de Oro- Carretero Madrid, Spain	Alternative method to study the bioaccumulation and biotransformation of BDE-47 using zebrafish larvae (Darrerio)			
	14:45	Rodrigo de Miguel- Salado Madrid, Spain	Development of a SPE-GC-MS method for determining NSAIDs in waste water			
	14:50	Vita Saska Kyiv, Ukraine	Application of nanostructured carbon electrodes modified with $\text{CuO-SiO}_2$ composite coating for voltammetric determination of $\text{H}_2\text{O}_2$			
	14:55	Nikola Lenar Kraków, Poland	How to choose the best material for solid-contact layer in ion-selective electrodes? - A comparative study.			
	15:00	Justyna Lipińska Kraków, Poland	Modifications of the surface of working electrodes used in voltammetry			
	15:05	Anna Górska Kraków, Poland	Application of carbon nanomaterials in the modification of glassy carbon electrodes			
	15:10	Radosław Porada Kraków, Poland	Methods for pyridoxine determination – an overview			
	15:15	Szymon Wójcik Kraków, Poland	Deep learning for voltammetry			
***	15:20	Coffee break + discus	ssion			



**15:30** Integration session

# **TUESDAY, 28th September 2021**



10:00

**Opening lecture** Katarzyna Jedlińska

Improving the visibility in presenting research results

#### **3rd Plenary Session – Chromatography** (chairperson: Justyna Lipińska)

10:15	Esther Gómez-Mejía Madrid, Spain	Chemical characterization and bioactivity evaluation of black mulberry and grape seeds		
10:30	Anton Korban Prague, Czech Republic	Fluctuation of internal standard method calibration factors using GC-MS		
10:45	Filip Vymyslicky Prague, Czech Republic	Abacavir: comparison of approaches to active pharmaceutical ingredient oxidation studies		
11:00	Katarína Molnárová Prague, Czech Republic	Separation of human IgG glycopeptides in mixed-mode hydrophilic interaction/ion-exchange liquid chromatography		
	10:30 10:45	10:15  Madrid, Spain  10:30  Anton Korban Prague, Czech Republic  10:45  Filip Vymyslicky Prague, Czech Republic  Katarína Molnárová		



11:15

Coffee break + discussion

#### 4<sup>th</sup> Plenary Session – Electrochemistry (chairperson: Radosław Porada)

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	11:45	Alona Usenko Pardubice, Czech Republic	Voltammetric determination of the new growth regulator Revysol® (mefentrifluconazole) by using a boron doped diamond electrode
	12:00	Oleksandr Matvieiev Pardubice, Czech Republic	Electrochemical properties of screen-printed sensors with chemically deposited boron doped diamond electrode and their applications in electroanalysis
THE STATE OF THE S	12:15	Anna Górska Kraków, Poland	Atorvastatin determination on glassy carbon electrode modified with carbon nanofibers and cobalt nanoparticles
	12:30	Barbara Niemiec Kraków, Poland	Graphene flakes modified with gold nanoparticles as intermediate layer for ion-selective electrodes
	12:45	Nikola Lenar Kraków, Poland	How can we modify materials for solid-contact layers in ion-selective electrodes? - Modifications of ruthenium dioxide



13:00

Voting for the best PhD student presentations Coffee break



13:30

Award for the best presentations Closing ceremony



9	 MONDAY				TUESDAY		
10	 9:30 - 10:15	惊	Opening	10:00 -		Opening	
11	10:15 - 10:30 10:30 - 11:30	iQ	Break Presentations	10:15 -	11:15	Presentations	
12	 11:30 - 12:00	""	Break	11:15 -	11:45	Break	
	12:00 - 13:00	İ	Presentations	11:45 -	13:00	Presentations	
13	13:00 - 14:00		Break	13:00 -		Voting	
14				from 1	3:30	Closing	
15	 14:00 - 15:15		Posters				
	15:15 - 15:30		Break				
16	from 15:30		Integration				

