24th Young Investigators Seminar on Analytical Chemistry

Venice, June 28th - 30th 2017

Program

Building Delta 0A

Scientific Campus, Via Torino 155, Mestre
Venice, Italy

June 28th, 2017

17:00–19:00 **Registration and Get-together party -** Building ALFA -1

June 29th, 2017

08:30-09:00 **Registration**

09:00-09:30 **Opening YISAC 2017**

09:30-10:45 *Session I* **- Sensors - chair: Maria Sole Zalaffi**

09:30-09:45	Krulišová Pavla	Electrochemical immunosensor based on antibody-nanoparticle conjugates as a potential tool for rapid detection of foodborne pathogenes
09:45-10:00	Possan André	Gold Surfaces Evaluation for Improvement in Magnetoelastic Biosensors
10:00-10:15	Kovařová Aneta	Quantum dots-modified silica nanoparticles as immunosensing platform allowing simultaneous electrochemical detection of cancer biomarkers
10:15-10:30	Kaczmarska Kinga	Modification of edge plane pyrolytic graphite electrode with graphene nanoplatelets for fabrication of highly sensitive electrochemical sensor
10:30-10:45	Kašparová Jitka	Dendrimers as a key component of detection probes in various bioapplications

10:45–11:15 Coffee break

11:15-13:00 *Session II* **- Chromatography I - chair: Ida Kraševec**

11:15-11:30	Piechocka Justyna	High performance liquid chromatography of endogenic thiols and aldehydes
11:30-11:45	Kroepfl Nina	Quantitative determination of ergothioneine by HPLC/ICP-QQQ-MS
11:45-12:00	Ocvirk Miha	Dynamic of isomerization of Hop (Humulus lupulus L) alpha-acids in brewing process
12:00-12:15	Glabonjat Ronald	A novel arsenolipid biosynthesised by Dunaliella tertiolecta under controlled culturing conditions
12:15-12:30	Mohorič Urška	Hyphenation of surfactant-free microemulsion electrokinetic chromatography (SF-MEEKC) with ESI-MS and UV detection for the determination of water- and fat-soluble neutral vitamins
12:30–12:45	Surmová Silvie	Application of different extraction methods to characterize the Tonka bean extract volatile profile
12:45-13:00	Kučerová Simona	Natural antimicrobial substances and their use it the food industry

13:00–14:15 Lunch

14:15-15:45 *Session III* **- Electroanalysis I - chair: Pavlina Martinkova**

14:15-14:30	Węgiel Krystian	Voltammetric behaviour of mandelic acid–titanium(IV)–chlorate(V) system at the bismuth bulk electrode
14:30-14:45	Śliwa Julia	Application of Novel Tellurium Film Electrode for Copper(II) Determination by Means of Anodic Stripping Voltammetry
14:45-15:00	Robak Justyna	The voltammetric determination of antioxidant – syringic acid
15:00-15:15	Žabčíková Simona	Optimization of retinol extraction into the carbon paste electrode from milk samples
15:15-15:30	Rudnicki Konrad	Electrochemical study of the ionophoric antibiotic – monensin and its voltammetric determination in a forage for horses
15:30-15:45	Gričar Ema	Electrochemical study of interactions between phytates and selected metal ions

16:00-16:30 Coffee break

16:30-18:00 *Session IV* **- Chromatography II - chair: Glabonjat Ronald**

16:30-16:45	Ivanović Milena	Deep Eutectic Solvents (DES): Green extraction of phenolic compounds from chokeberries (Aronia melanocarpa)
16:45-17:00	Topic Jelena	The comparison of anthocyanin and pyranoanthocyanin extraction efficiency in Pinot Noir wine using SPE
17:00-17:15	Adámková Karolína	Determination of bitter acids for the various species of hops and comparing their contents in beer prepared by so called dry hopping
17:15-17:30	Mrzlikar Miha	Analysis of Neonicotinoid Pesticides in Honey
17:30-17:45	Stiboller Michael	Distribution of arsenic and its species in human milk
17:45-18:00	Rizzato Giovanni	Metabolomics for characterizations of officinal herbs: the case of Helichrysum species

19:00-22:00 Social dinner

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09:00-10:45 *Session V* **- Chromatography III - chair: Kroepfl Nina**

09:00-09:15 Tasić Ana — Investigation of thiacloprid removal from water media by magnetite modified multiwalled carbon nanotubes

09:15-09:30 Callegaro Alice — Multi-biomarker analysis of sediments for paleoclimate research

09:30-09:45 Kraševec Ida — Development of a hollow fibre microextraction method for determination of benzotriazoles

09:45-10:00 Padoan Sara — Determination of ionic compounds in Antarctic samples using ion-chromatography coupled to mass spectrometry

10:00-10:15 Zanutto P. C. Clariana — Production and characterization of whey peptides bioactive in a packed bed reactor (PBR)

10:15-10:30 Zupančič Urška — The influence of selected oxide pigments on drying of linseed oil

10:30-11:00 Coffee break

11:00-13:00 *Session VI* **- Electronalysis II - chair: Śliwa Julia**

11:00-11:15 Vajdle Olga — Voltammetric determination of macrolide antibiotic azithromycin in the pharmaceutical preparation by carbon paste electrode surface modified with gold nanoparticles

11:15-11:30 Štěpánková Michaela — Comparison Study of Voltammetric Determination of Mesalazine Using Boron-doped Diamond Electrodes with Different Content of Boron

11:30-11:45 Sipa Karolina — Preparation, characterization, and electrochemical application of ultra-trace graphite electrode modified with namomaterials

11:45-12:00 Martinková Pavlína — Surface and electrochemical characterization of boron-doped diamond electrodes with different content of boron

12:00-12:15 Festinger Natalia — Properties of screen printed gold electrodes modified with carbon nanomaterials

12:30-13:45 Lunch

13:45-15:15 *Session VII* **- Spectroscopy and polymers - chair: Padoan Sara**

13:45-14:00 Goljat Leja — Comparison of Colorimetric Reagents and Their Applicability in Thermal-Lens Spectrometry

14:00-14:15 Bednářová Kristýna — Development of the ICP-OES method for determining iodine

14:15-14:30 Petronijevic Mirjana — The Allium test - a tool for monitoring the potential health risk of utilizing H_2O_2/UV advanced oxidation processes in drinking water treatment

14:30-14:45 Czarny Karolina — The influence of hormones on water organism and the methods for their determination

14:45-15:00 Mavrič Andraž — Efficient de-agglomeration of polysilane macromolecules in solution and their molecular size

15:00-15:15 Golub Doris — Functionalized high surface area vinylbenzyl chloride polyHIPES

15:30-16:00 Coffee break

16:00-17:00 *Session VIII* **- Electroanalysis III - chair: Natalia Festinger**

16:00-16:15 Azevedo Beluomini Maísa — Development of an electrochemical sensor based on electropolymerized molecularly imprinted polymer on modified gold nanowire electrodes for L-arabitol detection in sugarcane vinasse.

16:15-16:30 Kołodziejczyk Karina — The effects of constant magnetic field on metal electrodeposition

16:30-16:45 Ceolotto Nicola — Preparation and characterization of nanoelectrodes ensembles and disks microelectrodes

16:45-17:00 Zalaffi Maria Sole — Advanced nanomaterials and nanoparticles for electrochemical and SERS applications

17:00-17:30 Closing ceremony