



4th STARSS Conference on Separation Science

within a research project STARSS (Specialized Team for Advanced Research on Separation Science), Reg. No. CZ.02.1.01/0.0/0.0/15_003/0000465

DAY 1: Monday on-line sessions, 30. 11. 2020

- 13:00 – 13:15 Welcoming address and STARSS project information
Prof. Petr Solich, Prof. František Švec, Faculty of Pharmacy, Charles University, Hradec Králové, CZ
- 13:15 – 13:30 EuChemS-DAC Sample Preparation Study Group and Network introduction
Prof. Elia Psillakis, Technical University of Crete, Greece

SESSION I: CURRENT TRENDS IN SAMPLE PREPARATION I

- 13:30 – 13:50 L-01: Advanced extraction approaches in chromatography using nanofibers
Assoc. Prof. Dalibor Šatínský, Charles University, Hradec Králové, CZ
- 13:50 – 14:10 L-02: Sub- and supercritical fluid extraction in green and sustainable analytical chemistry
Prof. Charlotta Turner, University of Lund, Sweden
- 14:10 – 14:30 L-03: Vacuum-assisted headspace microextraction: Faster, better, easier, gentler
Prof. Elia Psillakis, Technical University of Crete, Greece
- 14:30 – 15:00 Coffee-break

SESSION II: CURRENT TRENDS IN SAMPLE PREPARATION II and NANOSENSORS

- 15:00 – 15:20 L-04: Analytical strategies for evaluation of drug loading in nanodelivery systems
Prof. Marcela Segundo, University of Porto, Portugal
- 15:20 – 15:40 L-05: Application of thin film microextraction to analysis of bile in liver transplantation
Dr. Barbara Bojko, Nicolaus Copernicus University, Torun, Poland
- 15:40 – 16:00 L-06: An Overview of Carbon Based Electroanalytical Nanosensors and their Pharmaceutical Application
Prof. Sibel A. Özkan, Ankara University, Turkey
- 16:00 – 16:30 L-07: Ethical Analytical Chemistry
Prof. Janusz Pawliszyn, University of Waterloo, Canada
- 16:30 – 17:30 Open discussion of EuChemS-DAC Sample Preparation Group

DAY 2: Tuesday, on-line sessions, 01. 12. 2020

SESSION III: ADVANCED CHROMATOGRAPHY

- 09:00 – 09:30 L-08: Multidimensional chromatographic methods for the analytical characterization of protein biopharmaceuticals
Dr. Davy Guillarme, University of Geneva, Switzerland
- 09:30 – 10:30 L-09: Separation performance and peak width in gradient elution chromatography: A tutorial
Prof. Ken Broeckhoven, Vrije Universiteit Brussel, Belgium
- 10:30 – 11:00 Coffee-break

SESSION IV: CURRENT TRENDS IN SAMPLE PREPARATION III

- 11:00 – 11:20 L-11: Automatic liquid-phase microscale extraction exploiting flow-based approaches
Prof. Manuel Miró, University of Balearic Islands, Spain
- 11:20 – 11:40 L-12: Biogenic organic compounds: greener approaches, environmental impact and analytical challenges
Prof. Slavica Ražić, University of Belgrade, Serbia
- 11:40 – 12:00 L-13: Online Solid Phase Extraction a sample pretreatment tool or an analytical technique?
Assoc. Prof. Petr Chocholouš, Charles University, Hradec Králové, CZ
- 12:00 – 12:20 L-14: Wearable Extractive Devices for Bio-analytical Applications
Dr. Ezel Boyaci, Middle East Technical University, Ankara, Turkey
- 12:20 – 13:00 Open discussion of EuChemS-DAC Sample Preparation Group
- 13:00 – 13:15 Closing address
Prof. Petr Solich, Prof. František Švec, Faculty of Pharmacy, Charles University, Hradec Králové, CZ

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