

Chiranal 2014 – Final Program

Monday (February 10th 2014)

14:00 – 17:30 Registration, individual arrival of participants and accommodation

16:00 – 16:15 Opening of conference
Representatives of Palacký University and TEVA

Chairmen: Eva Smolková, Zdeněk Stránský

16:15 – 17:15 *Plenary Lecture*
František Švec
Hypercrosslinking: A new route to porous polymer monoliths in capillaries and thin layers with enhanced surface area, reactivity, and chromatographic performance

17:30 – ?? Welcome party (reception, 6th floor, Faculty of Science)

Tuesday (February 11th 2014)

08:30 - 09:00 Breakfast

Chairmen: Andreas Rizzi, Petr Barták

09:00 – 09:30 Michael Lämmerhofer, Helmut Hinterwirth, Elisabeth Haller, Wolfgang Lindner
Nanoparticle-based immunoextraction of oxidized low-density lipoprotein and HPLC-MS/MS analysis of oxidized phospholipids as biomarkers for oxidative stress

09:30 – 09:50 David Friedecký, Kateřina Mičová, Edgar Faber, Marcela Hrdá, Tomáš Adam
Biotransformations of tyrosine kinase inhibitor - imatinib by high resolution mass spectrometry

09:50 – 10:10 Petr Marhol, Karel Křenek, David Biedermann, Vladimír Křen
Preparative separation of silymarin components on Sephadex LH-20

10:10 – 10:30 Eva Duchoslav, J. Larry Campbell, Tomáš Korba
Lipid Class Separation by Differential Mobility Spectrometry

10:30 - 11:00 Coffee break

Chairmen: Michael Lämmerhofer, Petr Fryčák

11:00 – 11:30 Andreas Rizzi, Claudia Michael, Siniša Sić, Estela Giménez-Lopez
Quantitative profiling of glycans released from proteins using stable-isotope-coded glycan labeling and shape-selective HPLC hyphenated to mass spectrometry

11:30 – 11:50 Jozef Marák
Mass Spectrometry in Combination with Separation Techniques for Analyses of Biological Samples

11:50 – 12:10 Monika Židková, Marie Balíková, Jaroslav Pól, Tomáš Páleníček, Igor Linhart, Martin Dušek
Study on biotransformation of mephedrone in rats after subcutaneous administration using Orbitrap LC-MS

12:10 – 12:30 Daniel Vláčil
Rapid Screening of Unknown Contaminants based on Low and High Resolution Mass Spectrometry

12:40 - 14:00 Lunch (Mensa)

14:00 - 15:30 Poster session I

15:30 - 16:00 Coffee break

Chairmen: Václav Kašička, Jan Petr

- 16:00 – 16:30 Camille Perréard, Fanny d'Orlyé, Yoann Ladner, Sophie Griveau, Fethi Bedioui, Anne Varenne
Design of a lab-on-a-chip integrating an aptamer-based molecular capture for the diagnostic of emerging water contaminants
- 16:30 - 17:00 Iago Pereiro, Sanae Tabnaoui, Laurent Malaquin, Jean-Louis Viovy, Stéphanie Descroix
A microfluidic fluidized bed for molecules and cells preconcentration
- 17:00 – 17:20 Petr Fryčák, Michael Volný, Joelle Rolfs, Bejan Hakimi, Gloria Yen, Daniel Chiu, František Tureček
Interfacing microfluidics and mass spectrometry: towards single-cell analysis
- 17:20 – 17:40 Lada Vítová, Radim Vespalec, Luděk Havran, Miroslav Fojta
First findings from electrophoretic investigation of electrochemical labeling of very short DNA fragments
- 17:40 – 18:00 Stanislav Kukla
Hot applications in HILIC mode using two complementary zwitterionic stationary phases
- 18:15 - 19:15 Dinner (Mensa)

Wednesday (February 12th 2014)

08:30 - 09:00 Breakfast

Chairmen: Kevin Schug, Barbora Papoušková

- 09:00 – 09:30 Pavel Jandera, Tomáš Hájek, Kateřina Vyňuchalová
Fast gradient HPLC
- 09:30 – 09:50 Antal Péter, István Ilisz, Zsanett Gecse, Daniel Armstrong, Myung Ho Hyun, Wolfgang Lindner
High-performance liquid chromatographic enantioseparation of unusual amino acids
- 09:50 – 10:10 Michal Kohout, Denise Wolrab, Peter Frühauf, Wolfgang Lindner
Potential of chiral ion exchange-type stationary phases in subcritical fluid chromatography
- 10:10 – 10:30 Libuše Matulková
The Advent of Supercritical Fluid Chromatography

10:30 - 11:00 Coffee break

Chairmen: Anne Varenne, Joanna Znaleziona

- 11:00 – 11:30 Václav Kašička, Dušan Koval, Petra Sázelová, Lukáš Severa, Jan Vávra, Louis Adriaenssens, Manoj Sonawane, Filip Teplý
Capillary electrophoresis applied to chiral analysis of helquats and characterization of their intermediates and interconversion barriers using randomly and single isomer sulfated cyclodextrins as stereoselectors
- 11:30 – 11:50 István Ilisz, Nóra Grecsó, Ferenc Fülöp, István Szatmári, Antal Péter
Capillary electrophoretic enantioseparation of unusual amino acids and aminonaphthol analogues
- 11:50 – 12:10 Jasna Hradski, Marián Masár, Róbert Bodor
Microchip electrophoresis of inorganic ions in cerebrospinal fluid
- 12:10 – 12:30 Robert M. Sample, Syed Salman Lateef, Kevin Bayly
Use of a Hybrid SFC/UHPLC/MS System for Method Transfer and Development from HPLC to SFC
- 12:40 - 14:00 Lunch (Mensa)
- 14:00 - 15:30 Poster session II

15:30 - 16:00 Coffee break

Chairmen: Stéphanie Descroix, David Milde

16:00 – 16:30 Andrej Oriňák, Renáta Oriňáková, Zuzana Nováková, Patrik Straňák, Ondrej Petruš, Jaromír Hubálek

Advanced Separation with Functional Nanosized Substrates

16:30 - 16:50 Ludmila Müllerová, Pavel Dubský, Bohuslav Gaš

Interaction of a partly dissociated analyte with a dual selector system

16:50 – 17:10 Martina Riesová, Jana Svobodová, Martin Beneš, Eva Tesařová, Bohuslav Gaš

Hidden disturbing phenomena in separation systems of CE

17:10 – 17:50 Jan Aufart, Luboš Valerian, Igor Dvořáček, Petr Březina, Jana Pavelková

The „Methanol“ case (in Czech)

18:00 - 19:00 Dinner (Mensa)

Thursday (February 13th 2014)

08:30 - 09:00 Breakfast

Chairmen: Wolfgang Lindner, David Jirovský

09:00 – 09:30 Kevin A. Schug, Jeremy S. Barnes, Hui Fan, Veronica Waybright

Kinetically-Resolved Flavonoid Oxidation Products Monitored On-line with Electropray Ionization Mass Spectrometry

09:30 – 09:50 Lucie Hartmanová, Petr Fryčák, Lucie Borovcová, Andreea Maria Iordache, Vladimír

Havlíček and Karel Lemr

First steps to nanoDESI imaging

09:50 – 10:10 Iva Chvilíčková

Food Analysis using Rapid Full Scan / MRM Switching Modes

10:10 - 12:30 Visit of Regional Centre of Advanced Technologies and Materials

12:40 - 14:00 Lunch (Mensa)

14:00 - 17:00 Concert (Mozart Hall, Moravian Fiharmony) / Bowling (Šantovka)

18:00 - ?? Social dinner (reception, 6th floor, Faculty of Science)

Friday (February 14th 2014)

08:30 - 09:00 Breakfast

Chairmen: Pavel Jandera, Petr Bednář

09:00 – 09:30 Milan Hutta
Humic substances as interferences of active pharmaceutical ingredients in environmental samples analyzed by HPLC methods

09:30 – 09:50 Petra Kovaříková, Vít Šesták, Ján Stariat, Eliška Macková, Stanislav Micuda, Tomáš Šimůnek, Jiří Klimeš, Des R. Richardson

Liquid chromatography-mass spectrometry in preclinical investigation of novel thiosemicarbazone anti-cancer agents

09:50 – 10:10 Radim Kučera, Václav Žižkovský, Peter Kalafut, Jiří Klimeš

The separation of ondansetron and its related compounds on metal oxide based stationary phases

10:10 – 10:30 David Milde

Measurement Uncertainty and Compliance Assessment

10:30 - 11:00 Coffee break

Chairman: Karel Lemr

11:00 - 12:00 *Plenary lecture, Rudolf Zahradnik Series Lecture*
Wolfgang Lindner
Chromatographic Resolution of Enantiomers on Chiral Ion Exchanger: Conceptual Reflections

12:00 - 12:20 Closing of conference, Farewell drink

13:00 - 14:00 Lunch (Mensa)