

Program of the CECE Junior 2013

Hotel Continental, Brno, Czech Republic, November 12-13, 2013

“... bringing people and ideas together ...”



europa
european
social fund in the
czech republic



EUROPEAN UNION



MINISTRY OF EDUCATION,
YOUTH AND SPORTS



OP Education
for Competitiveness

INVESTMENTS IN EDUCATION DEVELOPMENT

Program of the CECE Junior 2013

Hotel Continental, Brno, Czech Republic, November 12-13, 2013

“... bringing people and ideas together ...”

Organized by:

Institute of Analytical Chemistry AS CR, v. v. i., Veveří 97, 602 00 Brno, Czech Republic

Organizing committee: František Foret, Jana Křenková, Karel Klepárník, Iveta Drobníková, Monika Staňková. Webmasters: František Matulík, Zbyňek Diviš

Proceedings Editors: František Foret, Jana Křenková, Andras Guttman*, Karel Klepárník, Petr Boček

Institute of Analytical Chemistry AS CR, v. v. i., Veveří 97, 602 00 Brno

* Fulbright Scholar at IACH, Brno - Northeastern University, Boston, MA, USA and University of Pannonia, Veszprem, Hungary

This project is co-financed by the European Social Fund and the state budget of the Czech Republic (CZ.1.07/2.3.00/20.0182).

Tento projekt je spolufinancován z Evropského sociálního fondu a státního rozpočtu České republiky (CZ.1.07/2.3.00/20.0182).

Find the meeting history and more at www.ce-ce.org

Tuesday, November 12

8:00 – 16:00

Registration

9:00

Conference opening

9:10 – 9:40

Plenary lecture

AUTOMATED N-GLYCOSYLATION ANALYSIS FOR TRANSLATIONAL GLYCOMICS:
QUO VADIS?

Andras Guttman

MTA-PE Translational Glycomics Group, MUKKI, University of Pannonia, Veszprem,
Hungary, guttman@lendulet.uni-pannon.hu

9:40 – 9:55

PIEZOELECTRIC BIOSENSOR COUPLED TO CYCLONE AIR SAMPLER FOR
DETECTION OF MICROORGANISMS

Zdeněk Farka¹, David Kovář^{1,2}, Petr Skládal^{1,2}

1 Department of Biochemistry, Faculty of Science, Masaryk University, Brno, Czech
Republic, farka@mail.muni.cz

2 CEITEC MU, Masaryk University, Brno, Czech Republic

9:55 – 10:10

MULTI-STEP SYNTHESIS OF CASPASE-3 SENSOR BASED ON FÖRSTER
RESONANCE ENERGY TRANSFER

Marcela Liskova¹, Karel Kleparnik¹, Pavel Pazdera², Frantisek Foret¹

1 Institute of Analytical Chemistry ASCR, v.v.i., Brno, Czech Republic, liskova@iach.cz

2 Centre for Syntheses at Sustainable Conditions and Their Management Department
of Chemistry, Faculty of Science, Masaryk University, UKB, Brno, Czech Republic

10:10 – 10:25

AN INSIGHT INTO THE RETENTION MECHANISM ON CYCLOFRUCAN-BASED
CHIRAL STATIONARY PHASES

Jiří Vozka, Květa Kalíková, Eva Tesařová

Department of Physical and Macromolecular Chemistry, Faculty of Science, Charles
University in Prague, Prague, Czech Republic

10:25 – 10:50 Coffee break

10:50 – 11:05

COMPARISON OF CHIRAL STATIONARY PHASES BASED ON IMMOBILIZED POLYSACCHARIDES IN REVERSED PHASE MODE

Radim Geryk, Denisa Plecítá, Květa Kalíková, Eva Tesařová

Department of Physical and Macromolecular Chemistry, Faculty of Science, Charles University in Prague, Czech Republic radim.geryk@natur.cuni.cz

11:05 – 11:25

APPLICATION OF PRESSURIZED HOT WATER FOR ETCHING OF MICROFLUIDIC STRUCTURES

Michal Vašina¹, Jakub Grym, Pavel Karásek, František Foret

1 Gymnasium of Mathyas Lerch, Brno, Czech Republic, michalvasina@yahoo.com

2 Institute of Analytical Chemistry, Brno, Czech Republic

11:25 – 11:40

SEPARATION OF TRYPTIC DIGEST OF CYTOCHROME C WITHIN A LONG NANO-ELECTROSPRAY TIP

Anna Týčová^{1,2}, František Foret¹

1 Institute of Analytical Chemistry of the ASCR, v. v. i., Brno, Czech Republic, tycova@iach.cz

2 Masaryk University, Brno, Czech Republic

12:00 - 14:30 Lunch and poster presentations

14:30 – 14:45

AN EASY SURFACE MODIFICATION IN HETEROGENEOUS NANO- AND MICROFLUIDIC DEVICES

Thi Thu Vu^{1,2}, Marc Fouet³, Anne-Marie Gue³, Jan Sudor^{1,2}

1 Université Paul Sabatier, Université de Toulouse, Toulouse, France, thuvu.edu86@gmail.com

2 Institut de Recherche pour le Développement (IRD), Toulouse, France

3 Laboratoire d'Analyse et d'Architecture des Systèmes (LAAS), Toulouse, France

14:45 – 15:00

NEW SENSOR FOR DNA MUTATION DETECTION

Vladimíra Datinská^{1,2}, Karel Klepárník¹, Marek Minárik³, František Foret¹

1 Institute of Analytical Chemistry of the ASCR v.v.i., Brno, Czech Republic,
datinska@iach.cz

2 Masaryk University, Brno, Czech Republic

3 Genomac International, s.r.o., Prague, Czech Republic

15:00 – 15:15

INFORMATION ENTROPY APPROACH AS A METHOD OF ANALYSING BELOUSOV-ZHABOTINSKY REACTION WAVE FORMATION

Anna Zhyrova, Dalibor Stys, Petr Cisar

University of South Bohemia in České Budějovice, Institute of Complex Systems, Nové Hradky, Czech Republic, zhyrova@frov.jcu.cz

15:15 – 15:30

FAST DETERMINATION OF CATIONS AND ANIONS ON ELECTROPHORETIC MICROCHIP IN CEREBROSPINAL FLUID

Jasna Hradski, Marián Masár, Róbert Bodor

Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia, hradski@fns.uniba.sk

15:30 – 17:30 Poster session

18:30

Conference dinner with traditional Moravian music - Hotel Continental

Wednesday, November 13

8:00 Registration

8:30 – 10:00 Poster session

10:00 – 10:30

Plenary lecture

ANALYSIS OF TISSUE-BOUND CELLS: NOVEL APPROACHES USING LASER CAPTURE MICRODISSECTION

Eva Matalova

Institute of Animal Physiology and Genetics ASCR, v.v.i., Brno, Czech Republic

10:30 – 10:45

HILIC: EFFECT OF THE STRUCTURE OF THE MOBILE AND STATIONARY PHASE ON THE RETENTION OF PHENOLIC COMPOUNDS ON THE DIOL BASED COLUMNS

Petr Janás, Pavel Jandera, Tomáš Hájek

University of Pardubice, Pardubice, Czech Republic, petrjanas@seznam.cz

10:45 – 11:00

PRACTICAL ASPECTS OF COMPLEXATION OF BUFFER CONSTITUENTS WITH NEUTRAL COMPLEXATION AGENTS IN CAPILLARY ELECTROPHORESIS

Jana Svobodova^{1,2}, Martina Riesova¹, Martin Benes¹, Eva Tesarova¹, Bohuslav Gas¹

1 Charles University in Prague, Faculty of Science, Department of Physical and Macromolecular Chemistry, Prague, Czech Republic

2 University of Heidelberg, Institute of Organic Chemistry, Heidelberg, Germany

11:00 – 11:15

SENSITIVE METHOD OF CASPASE-3 DETECTION IN SINGLE STEM CELL

Eva Adamová^{1,2,3}, Karel Klepárník¹, Eva Matalová^{2,3}

1 Institute of Analytical Chemistry, v.v.i., Czech Academy of Science, Brno, Czech Republic, adamova@iach.cz

2 Department of Physiology, University of Veterinary and Pharmaceutical Sciences, Brno, Czech Republic

3 Institute of Animal Physiology and Genetics ASCR, v.v.i., Brno, Czech Republic

11:15 – 11:30

NEW APPROACH IN ELECTROCHEMICAL IMMUNOMAGNETIC BIOSENSORS FOR PROTEIN DETECTION

Michaela Čadková^{1,2}, Veronika Dvořáková^{1,2}, Lucie Korecká¹, Radovan Metelka², Zuzana Bílková¹

1 Department of Biological and Biochemical Sciences, University of Pardubice, Pardubice, Czech Republic, michaela.cadkova@upce.cz

2 Department of Analytical Chemistry, University of Pardubice, Pardubice, Czech Republic

11:30 – 11:45

OPTIMIZATION OF N-GLYCOPEPTIDES ANALYSIS METHODS AND THEIR PRELIMINARY APPLICATION TO BARLEY PROTEINS STUDY

Dagmar Benkovská, Dana Flodrová, Janette Bobálová, Markéta Laštovičková
Institute of Analytical Chemistry ASCR, v.v.i., Brno, Czech Republic, benkovska@iach.cz

12:00 - 14:30 Lunch and poster session/poster removal

14:30 – 14:45

MALDI MS AND SALD ICP MS: COMPLEMENTARY DETECTION TECHNIQUES FOR METALLOPROTEOMICS

Iva Tomalová, Pavla Foltynová, Viktor Kanický, Jan Preisler
CEITEC – Central European Institute of Technology, Masaryk University, Brno, Czech Republic, tomalova@mail.muni.cz

14:45 – 15:00

HIGH-THROUGHPUT MALDI TOF MASS SPECTROMETRY IMAGING

Antonín Bednařík¹, Pavel Kuba², Pavel Houška², Eugene Moskovets³, Iva Tomalová¹, Pavel Krásenský¹, Jan Preisler¹

1 Central European Institute of Technology/Department of Chemistry, Masaryk University, Brno, Czech Republic

2 Faculty of Mechanical Engineering, Brno University of Technology, Brno, Czech Republic

3 MassTech, Inc., Columbia, MD, USA

15:00 – 15:15

INTEGRATED MICROFLUIDIC DEVICE FOR DROPLET MANIPULATION

Evgenia Basova¹, Jakub Drs², Jiri Zemanek², Zdenek Hurak², Fratisek Foret^{1,3}

1 CEITEC - Central European Institute of Technology, Masaryk University, Brno, Czech Republic, evgenia-basova@rambler.ru

2 Czech Technical University, Prague, Czech Republic

3 Institute of Analytical Chemistry ASCR, v. v. i, Brno, Czech Republic

15:15 – 15:30

SUPPRESION OF PROTEIN SAMPLE LOSSES IN AUTOSAMPLER VIALS

Karel Stejskal^{1,2}, David Potěšil^{1,2}, Zbyněk Zdráhal^{1,2}

1 RG Proteomics, CEITEC MU, Masaryk University, Brno, Czech Republic, karel.stejskal@ceitec.muni.cz

2 National Centre for Biomolecular Research, Faculty of Science, Masaryk University, Brno, Czech Republic

15:30 – 15:45

CAPILLARY ELECTROPHORESIS WITH CONTACTLESS CONDUCTIVITY DETECTION FOR AMINO ACID PROFILING OF HUMAN AND URINE SAMPLES

Ales Madr, Andrea Cela, Jindra Musilova, Marta Zeisbergerova, Zdenek Glatz

Department of Biochemistry, Faculty of Science and CEITEC, Masaryk University, Brno, Czech Republic; 175764@mail.muni.cz

15:45 – 16:00

DETERMINATION OF ORGANIC ACIDS IN COMPLEX SAMPLES BY USING UV AND MS/MS DETECTION WITH/WITHOUT HPLC SEPARATION

Ľudovít Schreiber, Iveta Hukelová, Radoslav Halko

Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University in Bratislava, Bratislava, Slovakia; hukelova@fns.uniba.sk

16:00 – 16:10

Closing remarks

List of Poster Presentations

P1 PATHOPHYSIOLOGICAL ROLE OF ABERRANT GLYCAN EXPRESSION IN TUMORIGENESIS AND CANCER PROGRESSION

Bernadett Barkaszi, András Guttman

P2 OPTIMIZATION OF N-GLYCOPEPTIDES ANALYSIS METHODS AND THEIR PRELIMINARY APPLICATION TO BARLEY PROTEINS STUDY

Dagmar Benkovská, Dana Flodrová, Janette Bobálová, Markéta Laštovičková

P3 AMINO ACID PROFILING OF HUMAN PLASMA SAMPLES USING CAPILLARY ELECTROPHORESIS WITH CONTACTLESS CONDUCTIVITY DETECTION

Andrea Cela, Ales Madr, Jindra Musilova, Marta Zeisbergerova, Zdenek Glatz

P4 DEVELOPMENT OF LC/MS/MS METHOD FOR DETERMINATION OF ACETAMINOPHEN METABOLITES

Petr Česla, Tomáš Roušar, Erika Nýdlová, Martina Vrbová, Lenka Česlová, Jan Fischer

P5 ON-LINE SCREENING OF ABL1 INHIBITORS BY CAPILLARY ELECTROPHORESIS COUPLED TO MASS SPECTROMETRY

Hui Chen, Erwin Adams, Ann Van Schepdael

P6 NAPHTALENE 2,3 DICARBALDEHYDE DERIVATIZATION OF AMINO ACIDS – AN IMPROVED TECHNIQUE FOR MINIMIZATION OF BENZOIN CONDENSATION

Tereza Dedova, Andrea Cela, Ales Madr, Zdenek Glatz

P7 COMBINATORIAL GLYCOMICS 1: SYNTHESIS OPTIONS

Boglárka Dönczö, László Kalmár, János Kerékgyártó, Zoltán Szurmai, András Guttman

P8 CAPILLARY ELECTROPHORETIC SCREENING OF TOXIC METABOLITES IN VARIOUS BODY FLUIDS - A SIMPLE DIAGNOSTIC TOOL TO DIFFERENTIATE METHANOL AND ETHYLENE GLYCOL POISONING

Pavol Ďurč, Petr Kubáň, Miroslava Bittová, František Foret

P9 NEW ISOELECTRIC FOCUSING POWER SUPPLY BASED ON FEATURES OF VOLTAGE MULTIPLIER

Filip Duša, Karel Šlais

P10 MONITORING OF SELECTED ORGANIC ACIDS DURING THE PRODUCTION OF TRADITIONAL MORAVIAN WINE BY CAPILLARY ZONE ELECTROPHORESIS (CZE)

Miloš Dvořák, Hana Šuranská, Milena Vespalcová

P11 CONJUGATION OF ANTIBODIES FIXED TO SOLID PHASE WITH QUANTUM DOTS FOR AMPLIFICATION OF SIGNAL IN ELECTROCHEMICAL IMMUNOSENSOR
Veronika Dvorakova, Michaela Cadkova, Barbora Jankovicova, Lucie Korecka, Zuzana Bilkova

P12 SIMULTANEOUS HYBRIDIZATION AND SEPARATION OF SMALL NUCLEIC ACID FRAGMENTS WITH COMBINATION CAPILLARY ISOTACHOPHORESIS AND CAPILLARY ZONE ELECTROPHORESIS

Milan Fraňo, Michaela Gallee, Jozef Marák, Pavol Koiš

P13 APPLICATION OF FLUORESCENT CHEMOSENSOR FOR ENZYMATIC ANALYSIS

Michaela Gallee, Milan Fraňo, Pavol Koiš

P14 IMPROVING THE REPEATABILITY OF SAMPLING PROCEDURES FOR EXHALED BREATH CONDENSATE ANALYSIS

Michal Greguš, Petr Kubáň, František Foret

P15 A PILOT STUDY ON SEPARATION OF NEW DRUGS FOR TREATMENT OF LEUKEMIA BY CAPILLARY ZONE ELECTROPHORESIS

Jana Horská, Pavlína Ginterová, Juraj Ševčík, Jan Petr

P16 INFLUENCE OF P53 MUTATION ON RESPONSE OF HUMAN GLIOBLASTOMA TO CYTOSTATIC TREATMENT

Hronešová L., Holacká K., Polášková A., Adámik M., Navrátilová L., Tichý V., Helma R., Ballová L., Busova M., Bažantová P., Fojta M., Brázdová M.

P17 DETERMINATION OF ALIPHATIC AND AROMATIC CARBOXYLIC ACIDS IN DIFFERENT SAMPLES BY ION-EXCLUSION CHROMATOGRAPHY

Iveta Hukelová, Ľudovít Schreiber, Radoslav Halko

P18 POROUS LAYER OPEN TUBULAR COLUMNS WITH IMMOBILIZED TRYPSIN FOR PROTEIN DIGESTION

Radim Knob, Jana Křenková, Jan Petr, František Foret

P19 STUDY OF SEPARABILITY AND DETECTABILITY OF VARIOUS HUMAN INSULIN ANALOGUES AND INSULIN SOLUTION USING RP-HPLC METHOD

Veronika Komorowska, Milan Hutta

P20 UTILIZATION OF LC-MS TECHNIQUES FOR ANALYSIS OF PHENOLIC COMPOUNDS IN VARIOUS TEA SAMPLES

Katarína Krčová, Jozef Marák

P21 IEF AND HPLC-BASED METHODS FOR EFFICIENT BACTERIAL CHARACTERIZATION

Anna Kubesová, Jiří Šalplachta, Dana Moravcová, Marie Horká

P22 CONTRIBUTION OF HEVYLITE ASSAYS BY PATIENTS WITH MONOCLONAL GAMMOPATHY

Pavλίna Kušnierová, David Zeman, Radka Šigutová, Věra Ploticová, František Všianský, Zdeněk Švagera

P23 KINETIC CHARACTERIZATION OF CYTOCHROME P450 2C9 HYDROXYLATION OF DICLOFENAC BY CAPILLARY ELECTROPHORESIS - MASS SPECTROMETRY

Monika Langmajerová, Roman Řemínek, Zdeněk Glatz

P24 CAPILLARY ISOTACHOPHORESIS OF ANIONS WITH ELECTROSPRAY-IONIZATION MASS-SPECTROMETRIC DETECTION

Zdena Malá, Petr Gebauer, Petr Boček

P25 ADJUSTMENT OF DYNAMIC HIGH RESOLUTION IMAGES OF LIVING CELLS BY COMBINATION OF AN OPTICAL MICROSCOPY IN TRANSMITTING LIGHT, ATOMIC FORCE MICROSCOPY AND IMAGE INFORMATION ANALYSIS

Daria Malakhova, Dalibor Štys, Renata Rychtarikova

P26 USING DIFFERENT ELECTROPHORETIC METHOD FOR THE DETERMINATION OF THE AFFINITY CONSTANTS OF SALICYLIC ACID AND BSA

Lenka Michalcová, Zdeněk Glatz

P27 ANTIFUNGAL ACTIVITY OF MYRRHIS ODORATA L. ESSENTIAL OIL AGAINST ASPERGILLUS SPECIES

Rūta Mickienė, Audrius Maruška, Ona Ragažinskienė, Bronius Bakutis

P28 LIQUID CHROMATOGRAPHY MASS SPECTROMETRY OF SELECTED BENZOPHENANTHRIDINE ALKALOIDS INCUBATED WITH RAT LIVER MICROSOMES

Adam Midlik, Kristýna Pěnčíková, Ivana Kušnyerová, Gabriela Dovrtělová, Kristýna Nosková, Jan Juřica, Eva Táborská, Ondřej Peš

P29 ELECTROPHORETIC MOBILITY MEASUREMENTS OF A MULTIVALENT RED DYE SPADNS

Pavla Pantůčková, Pavel Kubáň, Petr Boček

P30 POLYDOPAMINE COATED CAPILLARIES FOR CE SEPARATIONS

Jan Partyka, Frantisek Foret, Thi Thu Vu, Jan Sudor

P31 ISOQUINOLINE ALKALOIDS OF THE CZECH AND CHINESE CULTURE OF MACLEAYA MICROCARPA (MAXIM.) FEDDE

Kristýna Pěnčíková, Ondřej Peš, Petr Táborský, Zhi-Hong Jiang, Eva Táborská

P32 PREPARATION OF LOW-COST MICROFLUIDIC DEVICES USING AN OFFICE LAMINATOR

Jan Petr, Lenka Vojtková, Pavlína Svobodová, Andrea Suchomelová

P33 THIN METAL FILMS FOR DETECTION AND PRECONCENTRATION

Pavel Podešva, František Foret

P34 PLASMA FREE METANEPHRINES AS DIAGNOSTIC MARKERS OF PHEOCHROMOCYTOMA

Lenka Portychova, Zora Nyvltova, Alice Brabcova Vrankova, Michal Bartos, Michaela Pilarova, Ivan Vermousek, Miroslav Antal, Ales Horna

P35 LOW-COST 3D-PRINTED FLUORESCENCE DETECTOR FOR CAPILLARY ELECTROPHORESIS

Jan Příklad, František Foret

P36 OPTIMIZATION OF A NEW CLOUD POINT EXTRACTION PROCEDURE FOR DETERMINATION OF TRACE AMOUNTS OF COPPER IN HUMAN URINE

Simona Prochazkova, Lenka Okenicova, Radoslav Halko

P37 OPTIMIZATION OF ELECTROCHEMICAL OXIDATION OF ERYTHROMYCIN

Monika Radičová, Róbert Bodor, Jozef Marák

P38 OFF-LINE COMBINATION OF PREPARATIVE ISOTACHOPHORESIS AND SIZE-EXCLUSION CHROMATOGRAPHY IN ANALYSIS OF HUMIC ACIDS

Zdenka Radičová, Róbert Bodor, Róbert Góra, Milan Hutta, Marián Masár

P39 THE USE OF MICROCHIP ELECTROPHORESIS FOR DETERMINATION OF THE MAIN PHARMACEUTICAL COMPONENTS

Marína Rudašová, Marián Masár, Róbert Bodor

P40 IMMOBILIZED ENZYME REACTOR FOR ON-LINE STUDIES OF DRUG METABOLISM MEDIATED BY CYTOCHROME P450 2C9 ISOFORM

Jan Schejbal, Roman Řemínek, Lukáš Zeman, Marta Zeisbergerová, Zdeněk Glatz

P41 HIGH PRESSURE MODIFICATION OF THE SIMPLE AUTOMATED LIQUID CHROMATOGRAPHIC SYSTEM FOR SPLITLESS NANO COLUMN GRADIENT SEPARATIONS

Jozef Šesták, Vladislav Kahle

P42 DETERMINATION OF REFERENCE INTERVALS OF URINARY CYSTATIN C AND ITS RATIO TO URINARY CREATININE IN HEALTHY CHILDREN

Radka Šigutová, Michal Hladík, František Všianský, Pavlína Kušnierová, Kristian Šafarčík, Zdeněk Švagera

P43 DETERMINATION OF CHLOROPHENOLS IN ENVIRONMENTAL SAMPLES USING ELECTROMEMBRANE EXTRACTION AND CAPILLARY ELECTROPHORESIS

Šlampová Andrea, Kubáň Pavel, Boček Petr

P44 CHARACTERIZATION OF PREPARED MONILITHIC CAPILLARY COLUMNS

Magda Staňková, Pavel Jandera, Tomáš Hájek

P45 CHANGES IN LIPID METABOLISM AND HORMONES INVOLVED IN ENERGY BALANCE AFTER IMPLEMENTATION OF INTRAGASTRIC BALLOON MEDSIL®

Zdeněk Švagera, Marek Bužga, Machytka Evžen, Pavlína Kušnierová, Zavadilová Vladislava

P46 STUDY OF THE MOST COMMON ADDITIVES AFFECTING ELECTRO-OSMOTIC FLOW FOR USE IN CAPILLARY ELECTROPHORESIS WITH CONTACTLESS CONDUCTIVITY DETECTION SETUP

Katerina Svobodova, Ales Madr, Zdenek Glatz

P47 LOW-COST PAPER-BASED DEVICE FOR SEMI-QUANTITATIVE ECOTOXICOLOGICAL ANALYSIS IN TERRAIN

Pavĺína Svobodov, Lenka Vojtkov, Andrea Suchomelov, Denisa Vlckov, Zuzana Petrov, Radim Knob, Jan Petr

P48 DESIGN AND MODELING OF MICROFLUIDIC CELL CAPTURE DEVICES

Marton Szigeti, Gabor Jarvas, Andras Guttman

P49 SEPARATION OF SOME PHARMACEUTICAL ADDITIVES BY MICROCHIP AND CAPILLARY ELECTROPHORESIS

Peter Troška, Marin Masr, Ewa Poboży, Rbert Bodor

P50 DERIVATIZATION OF FATTY ALCOHOL ETHOXYLATES FOR LIQUID CHROMATOGRAPHY SEPARATION WITH UV-VIS DETECTION

Nikola Vaňkov, Petr esla, Jan Fischer

P51 CZE AND MEKC SEPARATION OF PHENOLIC COMPOUNDS

Jana Vaňov, Petr esla a Jan Fischer

P52 THIN LAYER CHROMATOGRAPHY AS A SCREENING METHOD FOR HPLC CONDITIONS FOR THE ANALYSIS OF AQUEOUS SOIL EXTRACTS

Veronika Vojtkov, Milan Hutta

P53 UTILIZATION OF MICROPREPARATIVE FAST FOCUSING BY A NEW WIDE PH RANGE ELECTROLYTE SYSTEM BASED ON BIDIRECTIONAL ISOTACHOFORESIS

Marie Vykydalov, Filip Duša, Marie Hork, Karel Šlais

P54 INVESTIGATION OF THE INTERCONVERSION BARRIERS OF THE PHTHALIMIDONE DERIVATIVE EM12 AND LENALIDOMIDE BY DEKC

Sarah Walz, Oliver Trapp

P55 REMOVAL OF ABUNDANT PROTEINS TO ENABLE GLOBAL PROTEOME ANALYSIS OF THE HUMAN PLASMA: QC METHODOLOGY DEVELOPMENT USING IMMUNOGLOBULIN AND ALBUMIN AS MARKERS

Mrta Racz, Lszlo Takacs, Andrs Guttman, Jzsef Lzr

