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686th Conference

Scientific Program

World Congress on

CHROMATOGRAPHY

September 21-23, 2016 Amsterdam, Netherlands



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Day 1 September 21, 2016

08:30-09:15 **Registrations**

Meeting Place 2

conferenceseries.com **09:15-09:30** **Opening Ceremony**

Keynote Forum

09:30-09:45 **Introduction**

09:45-10:15 **Title: Roles of chromatography in developing traditional herbal/ayurvedic medicine (phytomedicines)**
Ramesh C Pandey, GDP Ayurvedic University, USA

10:15-10:45 **Title: Aqueous normal phase chromatography. A new approach to complex sample analysis**
Joseph J Pesek, San Jose State University, USA

10:45-11:15 **Title: Macro and micro-scale methods using large volume injections and heart-cutting 2D-LC for ultrahigh sensitivity bioanalysis**
Filip Cuyckens, Janssen R&D, Belgium

Group Photo & Networking & Refreshment: 11:15-11:30 @ Pre Function

Session:
Affinity Chromatography

Session Introduction

Session Chair: Joseph J Pesek, San Jose State University, USA

Session Co-Chair: Evelien Wynendaele, Ghent University, Belgium

11:30-11:50 **Title: Fingerprinting of natural product by eastern blotting using monoclonal antibodies**
Yukihiro Shoyama, Nagasaki International University, Japan

11:50-12:10 **Title: Topiramate quantitation in human plasma by liquid chromatography-tandem mass spectrometry: Application to therapeutic drug monitoring**
Kamal Matar, Kuwait University, Kuwait

12:10-12:30 **Title: New applications of reversed phase chromatography for detection and quantitation of certain adulterants in illegal herbal medicines**
Ahmed Mohamed Ali Hemdan, Ahram Canadian University, Egypt

12:30-12:50 **Title: Implementation of UHPLC-single quad MS platform: The next level transforming pharmaceutical quality control laboratories**
Evelien Wynendaele, Ghent University, Belgium

12:50-13:10 **Title: Analysis of natural crosslinks by liquid chromatography mass spectrometry using a silica hydride column**
Rafea M Naffa, Massey University, New Zealand

13:10-13:30 **Title: A novel and fast approach to monitor cell disruption efficiency**
Britta Eggenreich, Vienna University of Technology, Austria

Lunch Break: 13:30-14:30 @ The Gallery

Session:
High Performnace Liquid Chromatography | Gas Chromatography

Session Introduction

Session Chair: Michael Soll, Frontier Laboratories, Germany

Session Co-Chair: Katsuhiro Maeda, Kanazawa University, Japan

14:30-14:50 **Title: Quantification of drug metabolites in the absence of authentic standards**
Filip Cuyckens, Janssen R&D, Belgium

14:50-15:10 **Title: The Development of Standards for Quality Control of Herbal Medicines**
Siu-Po IP, The Chinese University of Hong Kong, Hong Kong

15:10-15:30 **Title: Study on the generation mechanism and change regularity of characteristic "raisin" flavor compounds in raisins**
Dong Wang, China Agricultural University, China

15:30-15:50 **Title:Elution order switchable chiral stationary phases for HPLC based on switching and memory of helicity in polyacetylenes in the solid state**
Katsuhiro Maeda, Kanazawa University, Japan

Networking and Refreshments Break: 15:50-16:05 @ Pre Function

16:05-16:25	**Title: Biomass upgrading and catalyst characterization using a tandem reactor - GC/MS system** **Michael Soll,** Frontier Laboratories, Germany
16:25-16:45	**Title: A novel toolbox with chromatogram fingerprints for lysis monitoring in E.coli bioprocesses** **Vignesh Rajamanickam,** Vienna University of Technology, Vienna, Austria

Panel Discussion 16:45-17:15

Day 2 September 22, 2016

Meeting Place 2

Keynote Forum

10:00-10:30	**Title: Comprehensive molecular characterization of multi-component synthetic polymers with liquid chromatography** **Dušan Berek,** Polymer Institute of the Slovak Academy of Sciences, Slovakia
10:30-11:00	**Title: Unsupervised component analysis: How to retrieve independent contributions** **Jorge Costa Pereira,** University of Coimbra, Portugal
11:00-11:30	**Title: Retention time correction in gas chromatography by modelling concentration related effects** **R Kapeller,** Austrian Agency for Health and Food Safety, Austria

Networking and Refreshments Break: 11:30-11:45 @ Pre Function

Poster Presentations 11:30-12:00

CGY-001	**Title: Sensitive determination of phthalates in edible oils enabled through elimination of phthalate background from HPLC–MS/MS** **Adam Vavrouš,** Charles University in Prague, Czech Republic
CGY-002	**Title: Performance Comparison Between Monolithic Column And Silica Based C-18 Particle Packed Column For The Determination Of Three Anti-diabetics In Pharmaceuticals** **A. Hemdan,** Ahram Canadian University, Egypt
CGY-003	**Title: Spectrophotometric determination and recovery of Cr(VI) from waste water by using a novel calix[4] arene based on polymer inclusion membrane (PIM) modified with nanocomposite graphene oxide** **Canan Onac,** Pamukkale University, Turkey
CGY-004	**Title: A link between aberrant methylation level and AA adducts: Fact or coincidence** **Dalia El-Zeihery,** Beni-Suef University, Egypt
CGY-005	**Title: Novel approach for targeted profiling of plant ecdysteroids by UHPLC-MS/MS vs. SFC-UV/MS** **Danuse Tarkowska,** Palacky University, Czech Republic
CGY-006	**Title: MLC as an effective tool in the prediction of human intestinal absorption** **D S Shokry,** University of Huddersfield, UK
CGY-007	**Title: Simultaneous determination and validation of telmisartan and amlodipine in pharmaceutical preparations using capillary electrophoretic method** **Ebru TÜRKÖZ Acar,** Yeditepe University, Turkey
CGY-008	**Title: Rapid identification of anti-inflammatory active ingredients from Tumuxiang based on spectrum-effect relationship and natural products application solution with UNIFI** **Fangdi Hu,** Lanzhou University, P. R. China
CGY-009	**Title: Identification of components from Sinapis semina that act on the thoracic aorta by screening using cell membrane chromatography combined with online-high performance liquid chromatography-mass spectrum** **Fen Wei,** Xi'an Jiaotong University, China
CGY-010	**Title: Performance evaluation of different columns in hydrophilic interaction liquid chromatography for the determination of N-nitrosodiethanolamine in shampoo** **G Abedi,** Alzahra University, Iran
CGY-011	**Title: Analysis of endogenous aldehydes in human urine by static headspace gas chromatography–mass spectrometry** **Manuel Silva,** University of Córdoba, Spain

CGY-012	**Title: Temperature controlled liquid phase microextraction, in-situ derivatization for determination of estrogens in water by gas chromatography-tandem mass spectrometry** **Maw-Rong Lee**, National Chung Hsing University, Taiwan
CGY-013	**Title: Origin of haloacetic acids in milk and dairy products** **Mercedes Gallego**, University of Córdoba, Spain

Session:
Adsorption Chromatography | Ion Exchange Chromatography

Session Introduction

Session Chair: Jorge Costa Pereira, University of Coimbra, Portugal
Session Co-Chair: Wojciech Strzałka, Jagiellonian University, Poland

12:00-12:20	**Title: Multi-dimensional ion chromatography–mass spectrometry for simultaneous determination of extracellular metabolites in Clostridium thermocellum** **Yun Fa**, Chinese Academy of Sciences, China
12:20-12:40	**Title: Dendron-based stationary phases for hydrophobic interaction chromatography** **Sena Yaman**, Izmir Institute of Technology, Turkey
12:40-13:00	**Title: Separation of drug active ingredients by using subcritical water chromatography** **Berkant Kayan**, Aksaray University, Turkey
13:00-13:20	**Title: Implementation of ssDNA aptamers for imidazole-free purification of His3-tagged recombinant proteins** **Wojciech Strzałka**, Jagiellonian University, Poland

Lunch Break: 13:20-14:20 @ The Gallery

Poster Presentations 14:00-14:50

CGY-014	**Title: Introducing a versatile tandem µ-reactor-GC/MS system for rapid characterization of catalysts: Ethanol and citrus unshiu peel conversion** **Michael Soll**, Frontier Laboratories, Japan
CGY-015	**Title: Evaluation of Fe3O4.SiO2.Al(OH)3 and Fe3O4.Al(OH)3 nanostructures for extraction and pre-concentration of 1,4-dioxane from shampoo by gas chromatography** **Mina Ranjbar Zandaragh**, Imam Khomeini International University, Iran
CGY-016	**Title: Chromatographic purification of the water extract of Virola surinamensis (Rol.) Warb, an Amazonian medicinal plant** **Mirtes Midori Tanae**, Universidade Federal de São Paulo, São Paulo, Brazil
CGY-017	**Title: A validated UPLC-UV method for bisphenol A (BP-A) levels detection in imported plastic toys and drinking bottled water in Kuwait** **Naser Faisal Al-Tannak**, Kuwait University, Kuwait
CGY-018	**Title: Use of gas chromatography to determine the cholesterol level in samples of meat and meat products** **Ropota Mariana**, National Research & Development Institute for Animal Biology and Nutrition (IBNA), Romania
CGY-019	**Title: A validated LC-MS/MS assay for the quantitative determination of Hypophyllanthin and silibinin in Human Plasma: Application to a pharmacokinetic study in healthy volunteers** **Said A. Hassan**, Cairo University, Cairo, Egypt
CGY-020	**Title: Separation of seven flavonoids in Astragali radix using ultra-performance subcritical fluid chromatography on different stationary phases** **Shilan Feng**, Lanzhou University, China
CGY-021	**Title: Preparation of tetraoxocalix [2]arence[2]triazine coated Fe3O4 @SiO2 magnetic nanoparticles and its application in determination of PAHs in smokers urine** **Shusheng Zhang**, Zhengzhou University, China
CGY-022	**Title: Development of a multicomponent method for the analysis of banned substances in cosmetic products by GC-MS/MS** **Ševčík Václav**, National Institute of Public Health, Czech Republic
CGY-023	**Title: A novel toolbox for impurity pattern monitoring during inclusion body processing** **Vignesh Rajamanickam**, Vienna University of Technology, Vienna, Austria

CGY-024	**Title: Feasibility of correlating separation of ternary mixtures of neutral analytes via thin layer chromatography with supercritical fluid chromatography in support of green flash separations** **Tony Q Yan**, Pfizer Inc., USA
CGY-025	**Title: New method of screening allergenic components from Yejuhua injection with LAD2/CMC model online UHPLC-ESI-IT-TOF-MS system** **Yanni Lv**, Xi'an Jiaotong University, China
CGY-026	**Title: Screening allergenic components from Danshen injection via HMC-1/CMC online UHPLC-ESI-MS/MS system** **Yuanyuan Lin**, Xi'an Jiaotong University, China

Session:
Molecular Exclusion Chromatography

Session Introduction

Session Chair: Romain Kapel, University of Lorraine, France
Session Co-Chair: Fabian Holenstein, Novartis Institutes for Biomedical Research, Switzerland

14:50-15:10	**Title: Separation of hydrophobic amino acid enantiomers in CEC system by molecular imprinting technique** **Koray Şarkaya**, Düzce University, Turkey
15:10-15:30	**Title: N-Acylated chitosan Bis(arylcarbamate): A class of chiral separation materials with powerful enantioseparation ability and high tolerability to organic solvents** **Sheng Tang**, Wuhan Institute of Technology, China
15:30-15:50	**Title: Permeation profiles of hormones and NSAIDs through vaginal mucosa using Pentravan cream** **Hudson Polonini**, Federal University of Juiz de Fora, Brazil
15:50-16:10	**Title: Automated harvesting and 2-step purification of eight 1-L unclarified mammalian cell-culture broths containing antibodies using a novel configuration on ÄKTATM pure** **Fabian Holenstein**, Novartis Institutes for Biomedical Research, Switzerland
16:10-16:30	**Title: Size-exclusion HPLC as a sensitive and calibrationless method for complex peptide mixtures quantification** **Romain Kapel**, University of Lorraine, France

Networking and Refreshments Break: 16:30-16:45 @ Pre Function

Day 3 September 23, 2016

Meeting Place 2

Keynote Forum

10:00-10:30	**Title: Kinetic chromatography: A new approach to study kinetics of reversible protein-drug binding** **Sergey N Krylov**, York University, Canada
10:30-11:00	**Title: Micro-planar chromatography as useful tool for low resolution metabolomics study and environmental samples assessment** **Paweł K Zarzycki**, Koszalin University of Technology, Poland

Networking and Refreshments Break: 11:00-11:15 @ Pre Function

Session:
Special Techniques in Chromatography | Spectroscopy

Session Introduction

Session Chair: Sergey N Krylov, York University, Canada
Session Co-Chair: Jennifer E Claus, MilliporeSigma, USA

11:15-11:35	**Title: Raman spectroscopy based method for the evaluation of compositional consistency of nanofibrous layers** **Adéla Kotzianová**, Contipro Pharma a.s., Czech Republic
11:35-11:55	**Title: Spectrophotometric determination of Cr(iii) and Pb(ii) using 5,11,17,23-tetra[(2-ethyl acetoethoxyphenyl) (azo) phenyl]calix[4]arene** **Nguyen Khanh Hoang**, Industrial University of HoChiMinh City, Vietnam
11:55-12:15	**Title:Inverse liquid chromatography in surface characteristic of materials** **Katarzyna Adamska**, Poznan University of Technology, Poland

12:15-12:35	**Title: Enantiomer separations of amino acids and derivatives on immobilized polysaccharide phases with extended range of solvents using supercritical fluid chromatography** **Tony Q Yan**, Pfizer Inc., USA
	Lunch Break: 12:35-13:35 @ The Gallery
13:35-13:55	**Title: Comprehensive two-dimensional critical chromatography a tool to understand the behavior of random and block copolymers in chromatography** **Aschwin van der Horst**, Nuplex, Netherlands
13:55-14:15	**Title: Chromatography in the NMR tube** **Michael John**, Institute of Anorganische Chemie, Germany
14:15-14:35	**Title: Aptamer-based affinity chromatography as a rapid, single step method for purification of native proteins** **Svetlana M Krylova**, York University, Canada
14:35-14:55	**Title: Removal of lipid interferences using zirconia-based solid phase extraction (SPE) and QuEChERS sorbents** **Jennifer E Claus**, MilliporeSigma, USA
	Networking and Refreshments Break: 14:55-15:10 @ Pre Function
	Award Ceremony



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