

# Scientific Writing and Publishing

## Session YOU 14

This 90 minute session will provide an overview of the processes and pitfalls that occur in the dissemination of scientific research. The session will focus particularly on the publishing of scientific research in high quality journals, but will also include advice of the preparation and presentation of posters at scientific meetings. There will be three major components to the session. First, a detailed analysis of the process for preparing a manuscript, selecting a journal and submitting the manuscript for review. Next, the process of responding to reviewers' comments and preparing a revised manuscript will be discussed. Finally, the processes of preparing and presenting a poster will be covered.

The three presenters (Professor Paul Haddad, University of Tasmania; Professor Frantisek Svec, University of California Berkeley; Professor Emily Hilder, University of South Australia) collectively have more than 40 years of editorial experience and have served as editors of *Journal of Chromatography A*, *Analytica Chimica Acta*, *Trends in Analytical Chemistry*, *Journal of Separation Science*, and *Analytical and Bioanalytical Chemistry*. Information on the presenters is available by clicking on their names in the list of invited speakers on the conference web site.

## Timetable

0–10 min	Introduction to the presenters and aims of the session
10–35 min	Preparation and submission of a scientific manuscript
35–50 min	The review process and how to respond to reviewers
50–60 min	Preparation and presentation of posters at scientific meetings
60–90 min	Questions and panel discussion

# Scientific Program

## Saturday, June 17

14:00–18:00

	Short Course 1	Short Course 2	Short Course 3	Short Course 4
14:00–18:00	<b>Monika Dittmann</b> <b>Kevin D. Wyndham</b> State of art in column technology	<b>G�rard Hopfgartner</b> Hyphenation of chromatography to mass spectrometry: Concepts and applications	<b>Thomas Hankemeier</b> Metabolomic analysis	<b>Gabriel Vivo-Truyols</b> Statistical analysis of chromatographic data: A practical guide

## Sunday, June 18

9:00–13:00

	Short Course 5	Short Course 6	Short Course 7	Short Course 8
9:00–13:00	<b>Peter Schoenmakers</b> <b>Dwight Stoll</b> Multidimensional liquid chromatography	<b>Davy Guillarme</b> <b>Caroline West</b> Supercritical fluid chromatography	<b>Christian G. Huber</b> HPLC-MS techniques for proteome analysis	<b>Gerhard Liebisch</b> <b>Michal Hol�apek</b> Lipidomic analysis

15:00–19:10

	Opening Plenary Session
15:00–15:20	<b>Art performance</b>
15:20–15:40	<b>Welcome from chairman</b>
15:40–16:00	<b>Award Ceremonies</b> Martin Medal, Silver Jubilee Medal, U. Neue Award, G. Guiochon Faculty Fellowship, memory of Jack Kirkland
16:00–16:40	<b>Gert Desmet</b> Current state and future directions in liquid chromatography
16:40–17:10	<b>Coffee break</b>
17:10–17:50	<b>Zolt�n Tak�ts</b> Ambient and LC-MS lipidomic profiling of clinical samples – new era in cancer diagnostics
17:50–18:30	<b>Pat Sandra</b> The LC toolbox for protein biopharmaceutical characterization
18:30–19:10	<b>Peter A. Willis</b> Searching for life on ocean worlds with liquid phase separation systems

## Monday, June 19

8:30 – 10:00

Session 1	<b>FUN 1</b> Characterization of HPLC stationary phases – In memory of Jack Kirkland	<b>HYP 1</b> Ion mobility in LC/MS	<b>APP 1</b> Forensics, doping and toxicology
<b>Keynote</b> 08:30 – 09:00	<b>Attila Felinger</b> Mass transfer properties of zwitterionic chiral stationary phases University of Pécs Hungary	<b>Gérard Hopfgartner</b> Differential mobility spectrometry – mass spectrometry as an orthogonal separation dimension for omics University of Geneva Switzerland	<b>Mario Thevis</b> Testing non-approved substances using alternative matrices and liquid chromatography / high- and low-resolution tandem mass spectrometry in doping controls German Sport University Cologne Germany
<b>Oral 1</b> 09:00 – 09:20	<b>Barry Boyes</b> Improving biomolecule separations with superficially porous silica particles Advanced Materials Technology, Inc. USA	<b>Oliver Schmitz</b> LC+LC- and GC+GC-IM-qTOF-MS as a potential tool in non-target analysis University of Duisburg-Essen Germany <b>Invited Oral</b>	<b>Andreas Thomas</b> Doping control analysis of prohibited peptide drugs after sophisticated metabolism studies by means of liquid chromatography coupled to HR-MS/MS German Sport University Cologne Germany
<b>Oral 2</b> 09:20 – 09:40	<b>Joseph Glajch</b> Characterization of HPLC stationary phases: How this can lead to novel and improved chromatography Momenta Pharmaceuticals USA <b>Invited Oral</b>	<b>Alexey Makarov</b> Using IMS-MS combined with size-exclusion chromatography and differential hydrogen-deuterium exchange for semi-automated screen of global protein conformational changes in solution Merck Sharp & Dohme Corp. USA	<b>Federico Ponzetto</b> Exploring blood steroidomics for the improvement of the athlete biological passport steroidal module CHUV – University of Lausanne Switzerland
<b>Oral 3</b> 09:40 – 10:00	<b>Martin Gilar</b> Experimental evaluation of microfluidic LC column performance: Straight versus serpentine channels Waters Corporation USA <b>Invited Oral</b>	<b>Qiang Ma</b> Comprehensive separation and analysis of nonionic surfactants by ultra-high performance supercritical fluid chromatography combined with ion mobility spectrometry-mass spectrometry Chinese Academy of Inspection and Quarantine China	<b>Marieke De Boeck</b> Validation of a fast ionic liquid-based dispersive liquid-liquid microextraction procedure combined with LC-MS/MS analysis for the quantification of benzodiazepines in whole blood KU Leuven Belgium

Session 1	<b>YOU 1</b> 2D-LC
<b>Tutorial</b> 8:30 – 09:10	<b>Mark Schure</b> Two-dimensional chromatography: A tutorial Kroungold Analytical, Inc. USA
<b>Short oral 1</b> 09:10 – 09:22	<b>Renata Gerhardt</b> Chip-based HPLC with an integrated droplet interface for surface enhanced Raman detection University of Leipzig Germany
<b>Short oral 2</b> 09:22 – 09:34	<b>Elisenda Fornells</b> Membrane evaporative interface for LCxLC University of Tasmania Australia
<b>Short oral 3</b> 09:34 – 09:46	<b>Simon Jakobsen</b> Increasing flexibility in two-dimensional liquid chromatography by pulsed elution of the first dimension (Pulsed-elution 2D-LC) University of Copenhagen Denmark
<b>Short oral 4</b> 09:46 – 09:58	<b>Jun Heo</b> Two-dimensional LC for analysis of monoclonal antibody during bioprocess development MSD USA

## 10:30 – 12:00

Session 2	<b>FUN 2</b> Multi-dimensional separations	<b>HYP 2</b> Ion suppression and matrix-effects in separation – MS	<b>APP 2</b> Proteomics
<b>Keynote</b> 10:30 – 11:00	<b>Peter J. Schoenmakers</b> Multi-dimensional liquid chromatography – towards a million peaks University of Amsterdam Netherlands	<b>Jean-Luc Veuthey</b> Evaluation of matrix effects in HILIC, RPLC and SFC-MS University of Geneva, University of Lausanne Switzerland	<b>John Yates</b> Protein–protein interaction studies of disease networks The Scripps Research Institute USA
<b>Oral 1</b> 11:00 – 11:20	<b>Mark Schure</b> Size exclusion chromatography with superficially porous particles Kroungold Analytical, Inc. USA <b>Invited Oral</b>	<b>Lucie Nováková</b> Development of UHPSFC-MS method for high-throughput analysis of vitamin E isomers and evaluation of matrix effects when using different sample preparation approaches Charles University, Faculty of Pharmacy Czech Republic	<b>Christian G. Huber</b> Proteome- and phosphoproteome analysis of oncogenic signaling pathways University of Salzburg Austria <b>Invited Oral</b>
<b>Oral 2</b> 11:20 – 11:40	<b>Bob Pirok</b> Extended multi-dimensional liquid-chromatography systems for comprehensive analysis of complex polymeric nanoparticles University of Amsterdam Netherlands	<b>Aimin Tan</b> How much separation for LC-MS/MS quantitative bioanalysis? Nucro-Technics Canada	<b>Marcel Kwiatkowski</b> Better access to proteoforms by cold vaporization of tissues with picosecond-infrared-laser (PIRL) ablation University Medical Center Groningen Netherlands
<b>Oral 3</b> 11:40 – 12:00	<b>Andre de Villiers</b> Pareto-optimisation of HILIC-RP-LC separations: Experimental verification and application to phenolic analysis Stellenbosch University South Africa	<b>German Gomez-Rios</b> Can HPLC-MS be replaced by direct coupling of SPME to MS? Investigating challenging cases University of Waterloo Canada	<b>Morteza Khaledi</b> Surfactant-free coacervation of natural cell membranes for facile, selective extraction, and enrichment of integral membrane proteins in proteomics University of Texas-Arlington USA

Session 2	<b>YOU 2</b> Separation mechanisms
<b>Tutorial</b> 10:30 – 11:10	<b>Andrew Alpert</b> Effect of salts on retention of neutral solutes in HILIC PolyLC, Inc. USA
<b>Short oral 1</b> 11:10 – 11:22	<b>Sander Deridder</b> Numerical study of the thermal conductivity of columns packed with fully porous and superficially porous particles Vrije Universiteit Brussel Belgium
<b>Short oral 2</b> 11:22 – 11:34	<b>Anton Peristyy</b> Flow-dependent separation selectivity in LC: Theory, perspectives and applications ACROSS Australia
<b>Short oral 3</b> 11:34 – 11:46	<b>Khac-Long Nguyen</b> Transport of molecules of different sizes through monolithic, core-shell and porous silica columns. Effect of porous silica architecture Inpact group France
<b>Short oral 4</b> 11:46 – 11:58	<b>Szymon Bocian</b> Solvation processes in liquid chromatography – the importance and measurement Nicolaus Copernicus University in Toruń Poland

14:00 – 15:30

Session 3	<b>FUN 3</b> Mechanisms of mass transport phenomena	<b>HYP 3</b> Separation – high-resolution MS	<b>APP 3</b> Sample preparation and automation
<b>Keynote</b> 14:00 – 14:30	<b>Fabrice Gritti</b> Combining solvent and non-uniform temperature gradients to improve peak capacity in microfluidic separations Waters Corporation USA	<b>Alexander Makarov</b> Orbitrap technology in LC/MS and GC/MS: On the road to high-resolution in every lab Thermo Fisher Scientific Germany	<b>Janusz Pawliszyn</b> Why are thin coated sampling/extraction devices with biocompatible sorbents well suited for coupling of biological systems to liquid chromatography/mass spectrometry? University of Waterloo Canada
<b>Oral 1</b> 14:30 – 14:50	<b>Deirdre Cabooter</b> Experimental methodologies for the assessment of individual mass transfer phenomena revisited University of Leuven Belgium <b>Invited Oral</b>	<b>Ying Ge</b> Top-down proteomics of large proteins up to 223 kDa enabled by serial size exclusion chromatography strategy University of Wisconsin-Madison USA <b>Invited Oral</b>	<b>Gongke Li</b> Novel online sample preparation media for complicated samples analysis coupling with high-performance liquid chromatography Sun Yat-sen University China <b>Invited Oral</b>
<b>Oral 2</b> 14:50 – 15:10	<b>Szabolcs Fekete</b> System band broadening and its impact in modern size-exclusion chromatography of proteins University Of Geneva Switzerland	<b>Govert Somsen</b> Highly selective characterization of intact proteoforms by HILIC-MS Vrije Universiteit Amsterdam Netherlands	<b>Massimo Morbidelli</b> Isoform enrichment by recycling chromatography Institute for Chemical and Bioengineering Switzerland <b>Invited Oral</b>
<b>Oral 3</b> 15:10 – 15:30	<b>Julia Rybka</b> Surface diffusion of aromatic hydrocarbon analytes in reversed-phase liquid chromatography Philipps-Universität Marburg Germany	<b>Christian Lanshoeft</b> A generic hybrid LBA-LC-HRMS-based workflow for multiplexed hlgG1 quantification in pre-clinical species directly at the intact protein level Novartis Pharma AG Switzerland	<b>Astrid Gjelstad</b> Does parallel artificial liquid membrane extraction match the requirements for an applicable and high-throughput sample preparation method from biological matrices? University of Oslo Norway

Session 3	<b>YOU 3</b> Proteomics
<b>Tutorial</b> 14:00 – 14:40	<b>Barry L. Karger</b> The role of separations in protein and proteomic mass spectrometric analysis Northeastern University USA
<b>Short oral 1</b> 14:40 – 14:52	<b>Adam Kecskemeti</b> Characterization of a poly(dimethylsiloxane) microfluidic chip containing immobilized trypsin for rapid protein digestion University of Debrecen Hungary
<b>Short oral 2</b> 14:52 – 15:04	<b>Nirved Upadhyay</b> Lectin modified open tubular capillary column for selective glycoprotein extraction and isolation University of Tasmania Australia
<b>Short oral 3</b> 15:04 – 15:16	<b>Peng Yu</b> Trinity P1 mixed mode chromatography enables mass spectrometry compatible orthogonal peptide separation to reversed phase Technische Universität München Germany
<b>Short oral 4</b> 15:16 – 15:28	<b>Elizaveta Solovyeva</b> Predictive chromatography of peptides for optimized fractionation in bottom-up proteomics Moscow Institute of Physics and Technology Russian Federation

## 16:30 – 18:00

Session 4	<b>FUN 4</b> Stationary phases based on inorganic supports	<b>HYP 4</b> Multidimensional chromatography and MS coupling	<b>APP 4</b> Metabolomics
<b>Keynote</b> 16:30 – 17:00	<b>Joe Pesek</b> <b>Aqueous normal phase chromatography: The reliable and rugged method for polar compound analysis</b> San Jose State University USA	<b>William Craig Byrdwell</b> <b>Comprehensive two-dimensional liquid chromatography with quadruple parallel mass spectrometry, LC1MS2 x LC1MS2 = LC2MS4</b> ARS, Food Composit & Methods Dev Lab USA	<b>Guowang Xu</b> <b>Metabolomics: From differential metabolite discovery to functional elucidation</b> Dalian Institute of Chemical Physics China
<b>Oral 1</b> 17:00 – 17:20	<b>Frederic Lynen</b> <b>Enhancing peak capacity in temperature responsive liquid chromatography</b> Ghent University Belgium <b>Invited Oral</b>	<b>Dwight Stoll</b> <b>Improving the resolving power and detection sensitivity of two-dimensional liquid chromatography separations of protein digests</b> Gustavus Adolphus College USA <b>Invited Oral</b>	<b>Liang Li</b> <b>Comprehensive and Quantitative Profiling of the Human Blood Metabolome from One Microliter of Finger Blood</b> University of Alberta Canada <b>Invited Oral</b>
<b>Oral 2</b> 17:20 – 17:40	<b>Alla Chernobrovkina</b> 🏆 <b>Revealing the trends in selectivity changes altering the functional layer of novel HILIC stationary phases</b> Lomonosov Moscow State University Russian Federation	<b>Bert Wouters</b> <b>Implementation of an immobilised-enzyme microfluidic reactor in an integrated multi-dimensional liquid chromatography system</b> Universiteit van Amsterdam Netherlands	<b>Dajana Vuckovic</b> <b>Improving metabolite coverage in global metabolomics using sequential extraction</b> Concordia University Canada
<b>Oral 3</b> 17:40 – 18:00	<b>Estrella Sanz Rodriguez</b> <b>Porous silica layers open tubular multi-channel capillaries as micro analytical platforms for separation and extraction</b> University of Tasmania Australia	<b>C J Venkatramani</b> <b>High resolution analysis of linker drugs used in antibody drug conjugates (ADC's) by 2D-LC-MS: Transition of 2D-LC-MS from research to main stream pharmaceutical analysis</b> Genentech Inc USA	<b>Paige Malec</b> 🏆 <b>Derivatization strategies for targeted metabolomics</b> University of Michigan USA

🏆 Csaba Horvath Young Scientist Award finalists

Session 4	<b>YOU 4</b> Sample preparation
<b>Tutorial</b> 16:30 – 17:10	<b>Emily Hilder</b> <b>Tutorial lecture</b> University of South Australia Australia
<b>Short oral 1</b> 17:10 – 17:22	<b>Andrew Quigley</b> <b>Determination of selected fat soluble vitamins from bovine milk using dispersive liquid-liquid microextraction coupled with HPLC-UV equipped with a core-shell column</b> Waterford Institute of Technology Ireland
<b>Short oral 2</b> 17:22 – 17:34	<b>Sara Tengattini</b> <b>Development of an HPLC bioreactor based on immobilized enterokinase for the cleavage of fusion proteins</b> University of Pavia Italy
<b>Short oral 3</b> 17:34 – 17:46	<b>Michel Raetz</b> <b>Automated robotic sample preparation for metabolomics with hyphenation to LC-SWATH/MS acquisition for plasma and liver samples</b> University of Geneva Switzerland
<b>Short oral 4</b> 17:46 – 17:58	<b>Deyber Arley Vargas Medina</b> <b>Easy and cheap apparatus for the off-line automatization of miniaturized sample preparation techniques</b> Brazil

## Tuesday, June 20

8:30 – 10:00

Session 5	<b>FUN 5</b> Supercritical fluid chromatography	<b>HYP 5</b> Electrodriven separations – MS	<b>APP 5</b> Chiral separations
<b>Keynote</b> 08:30 – 09:00	<b>Caroline West</b> <b>Ions and SFC: An improbable match?</b> Université d'Orléans France	<b>Jonathan Sweedler</b> <b>Measuring endogenous D-amino acids in the brain – from brain regions and individual cells to cellular release – using CE and LC</b> University of Illinois at Urbana-Champaign USA	<b>Behzan Chankvetadze</b> <b>Recent trends in application of polysaccharide-based chiral selectors for liquid phase separation of enantiomers</b> Tbilisi State University Georgia
<b>Oral 1</b> 09:00 – 09:20	<b>Didier Thiébaud</b> <b>Evaluation of alternative solvents in normal phase liquid and supercritical fluid chromatography for lipid classes analysis</b> ESPCI Paris – CNRS – PSL Research University France <b>Invited Oral</b>	<b>Rawi Ramautar</b> <b>Resolving volume-restricted metabolomics using sheathless capillary electrophoresis-mass spectrometry</b> Leiden University Netherlands	<b>Gerhard Scriba</b> <b>Capillary electrophoresis in the determination of the stereoisomeric purity of drugs</b> Friedrich Schiller University Germany <b>Invited Oral</b>
<b>Oral 2</b> 09:20 – 09:40	<b>Abhijit Tarafder</b> <b>Modeling retention behavior under solvent gradient condition in SFC</b> Waters Corporation USA	<b>Christian Neusüß</b> <b>Mass spectrometric characterization of impurities of an antibody separated by SDS-capillary sieving electrophoresis using CSE-CZE-MS</b> Aalen University Germany	<b>Kenji Hamase</b> <b>Three-dimensional HPLC analysis of amino acid enantiomers in complicated real world samples</b> Kyushu University Japan
<b>Oral 3</b> 09:40 – 10:00	<b>Charlene Muscat Galea</b> <b>Optimization of temperature and back-pressure in drug-impurity profiling by SFC: A response surface design approach</b> Vrije Universiteit Brussel Belgium	<b>Aran Paulus</b> <b>Capillary electrophoresis – mass spectrometry for intact mass analysis of antibodies and antibody-drug-conjugates</b> Thermo Fisher Scientific USA	<b>Tivadar Farkas</b> <b>Further studies on the HILIC character of polysaccharide-based chiral stationary phases in polar organic separation mode</b> Phenomenex, Inc. USA

Session 5	<b>YOU 5</b> Metabolomics and lipidomics
<b>Tutorial</b> 8:30 – 09:10	<b>Liang Li</b> <b>High-coverage quantitative metabolomics using chemical isotope labeling LC-MS</b> University of Alberta Canada
<b>Short oral 1</b> 09:10 – 09:22	<b>Francesca Rigano</b> <b>Use of a novel linear retention index system as identification tool in liquid chromatography: Applications in lipidomics</b> Chromaleont S.r.l. Italy
<b>Short oral 2</b> 09:22 – 09:34	<b>Evelyn Rampler</b> <b>Simultaneous non-polar and polar lipid analysis by complementary online two-dimensional liquid chromatography and high resolution mass spectrometry</b> University of Vienna Austria
<b>Short oral 3</b> 09:34 – 09:46	<b>Hanne Roberg-Larsen</b> <b>Oxysterols in cancer</b> University of Oslo Norway
<b>Short oral 4</b> 09:46 – 09:58	<b>Tim Causon</b> <b>Increasing peak capacity and selectivity of LC-MS by incorporation of low-field drift-tube ion mobility separation</b> University of Natural Resources and Life Sciences (BOKU Vienna) Austria

## 10:30 – 12:00

Session 6	<b>FUN 6</b> Novel high-efficient separation media	<b>HYP 6</b> Nanofluidic and microfluidic separations – MS	<b>APP 6</b> Lipidomics
<b>Keynote</b> 10:30 – 11:00	<b>Mary Wirth</b> <b>Protein HPLC with polymer bonded phases on silica</b> Purdue University USA	<b>Robert T. Kennedy</b> <b>HPLC-MS analysis of small samples at high pressures</b> University of Michigan USA	<b>Markus R. Wenk</b> <b>Natural variation of blood plasma lipids in healthy Asian individuals</b> National University of Singapore Singapore
<b>Oral 1</b> 11:00 – 11:20	<b>Jelle De Vos</b> <b>Microfluidic chip technology to advance multidimensional liquid chromatography</b> Vrije Universiteit Brussel Belgium	<b>Andrea Gargano</b> <b>Online nano 2DLC meets Top-Down MS: WCX-HILIC/a-m/RPLC UVPD-HRMS analysis of histone proteoforms</b> Center for Analytical Chemistry Amsterdam Netherlands	<b>Huwei Liu</b> <b>Lipidomic analysis of plasma in patients with lacunar infarction using normal-phase / reversed-phase 2D LC-MS/MS</b> Peking University China <b>Invited Oral</b>
<b>Oral 2</b> 11:20 – 11:40	<b>Yi Chen</b> <b>Long-range uniform photonic crystals for high performance separation</b> Institute of Chemistry, Chinese Academy of Sciences China <b>Invited Oral</b>	<b>Wim De Malsche</b> <b>New developments in pillar array column technology</b> Vrije Universiteit Brussel Belgium	<b>Miroslav Lísá</b> <b>Lipidomic analysis of biological samples: Comparison of liquid chromatography, supercritical fluid chromatography and direct infusion mass spectrometry methods</b> University of Pardubice Czech Republic
<b>Oral 3</b> 11:40 – 12:00	<b>Kenichi Nagase</b> <b>Thermoresponsive-ionic block copolymer brush modified stationary phase for thermally-modulated proteins separation</b> Tokyo Women's Medical University Japan	<b>Rico Warias</b> <b>Chip-based liquid chromatography – mass spectrometry: An integrated tool to study catalysis at the microscale</b> University of Leipzig Germany	<b>Michael Witting</b> 🏆 <b>Ion mobility as additional separation dimension to tackle the complexity of the Caenorhabditis elegans lipidome</b> Helmholtz Zentrum München Germany

Session 6	<b>YOU 6</b> Chiral and achiral stationary phases
<b>Tutorial</b> 10:30 – 11:10	<b>Wolfgang Lindner</b> <b>Principles of enantioseparations in LC: State of the art, quo vadis</b> University of Vienna Austria
<b>Short oral 1</b> 11:10 – 11:22	<b>Ravindra Hegade</b> <b>Stationary phase optimized selectivity chiral liquid chromatography (SOS-CLC) as a novel perspective for the separation of stereoisomers</b> Ghent University, Belgium Belgium
<b>Short oral 2</b> 11:22 – 11:34	<b>Judyta Hejniak</b> <b>Flavonones enantioseparation by LC-ESI-MS/MS and its application</b> Silesian University of Technology, Faculty of Chemistry Poland
<b>Short oral 3</b> 11:34 – 11:46	<b>Magdalena Skoczylas</b> <b>Multi-parametric characterization of amino acids- and peptide-silica stationary phases – a column selection for separation targets</b> Nicolaus Copernicus University Poland
<b>Short oral 4</b> 11:46 – 11:58	<b>Romana Jarosova</b> <b>Nitrogen-incorporated tetrahedral amorphous carbon thin-films – A new electrode for the HPLC-EC of biological and environmental analytes</b> Michigan State University USA



14:00 – 15:30

Session 7	<b>FUN 7</b> Electromigration techniques	<b>HYP 7</b> LC/MS in lipidomics	<b>APP 7</b> Affinity separations
<b>Keynote</b> 14:00 – 14:30	<b>Marja-Liisa Riekkola</b> <b>Capillary electrophoresis – alternative technique for biosensors?</b> University of Helsinki Finland	<b>Gerhard Liebisch</b> <b>Relevance of appropriate internal standards for accurate quantification of lipid species by LC-MS/MS</b> University Hospital Regensburg Germany	<b>Koji Otsuka</b> <b>The use of specific interactions with fullerenes in microscale liquid phase separations</b> Kyoto University Japan
<b>Oral 1</b> 14:30 – 14:50	<b>Václav Kašička</b> <b>Affinity capillary electrophoresis employed for quantitative characterization of noncovalent molecular interactions</b> Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences Czech Republic <b>Invited Oral</b>	<b>Michel Guichardant</b> <b>Chiral LC-MS / MS analyses of free and esterified oxygenated metabolites deriving from arachidonic and docosahexaenoic acids in brains of rats exanguinated or not</b> INSA Lyon France	<b>David Hage</b> <b>Personalized medicine based on high-performance affinity microcolumns: Drug-protein binding studies with modified proteins and clinical samples</b> University of Nebraska USA
<b>Oral 2</b> 14:50 – 15:10	<b>Michal Roth</b> <b>Supercritical water-treated fused silica capillaries: currently accessible morphologies and applications in electromigration separations</b> Institute of Analytical Chemistry of the CAS, v. v. i. Czech Republic	<b>Josef Cvačka</b> <b>Structural characterization of lipids associated with the fetal skin development</b> Institute of Organic Chemistry and Biochemistry Czech Republic	<b>Hermann Wätzig</b> <b>Affinity capillary electrophoresis for ligand binding assays: Playing the ACE card</b> University of Braunschweig Germany
<b>Oral 3</b> 15:10 – 15:30	<b>Pavel Dubský</b> <b>Computer-assisted modelling, optimizations and data evaluations in electrophoresis</b> Faculty of Science, Charles University Czech Republic	<b>Lina Zhou</b> 🍷 <b>That simultaneous analysis of metabolome and lipidome based on heart-cutting two-dimensional liquid chromatography-mass spectrometry</b> Dalian Institute of Chemical Physics, Chinese Academy of Sciences China	<b>Sinéad Currvan</b> <b>Fabrication of biomolecule containing multi-channel photonic crystal fibres, and their application to bio-affinity and bio-catalytic reactions</b> Australian Centre for Research on Separation Science Australia

Session 7	<b>YOU 7</b> Ultrahigh-resolution mass spectrometry
<b>Tutorial</b> 14:00 – 14:40	<b>Alexander Makarov</b> <b>Theory and practice of Orbitrap mass spectrometry</b> Thermo Fisher Scientific Germany
<b>Short oral 1</b> 14:40 – 14:52	<b>David Paul</b> <b>Pharmacokinetics and brain uptake study of novel AMPA receptor agonist perampanel in Sprague Dawley rats using a validated UHPLC-QTOF-MS method</b> National Institute of Pharmaceutical Education and Research NIPER-Hyderabad India
<b>Short oral 2</b> 14:52 – 15:04	<b>Pieter Venter</b> <b>Analysis of chestnut tannins by reversed phase- and hydrophilic interaction chromatography coupled to ion mobility and high resolution mass spectrometry</b> University of Stellenbosch South Africa
<b>Short oral 3</b> 15:04 – 15:16	<b>Nathaly Reyes Garces</b> <b>Solid phase microextraction and liquid chromatography coupled to high resolution mass spectrometry: A powerful platform for in vivo brain metabolomics studies</b> University of Waterloo Canada
<b>Short oral 4</b> 15:16 – 15:28	<b>Ashley Boggs</b> <b>Measuring steroid profiles in whale blubber by liquid chromatography tandem mass spectrometry</b> National Institute of Standards and Technology USA

## 16:30–18:00

Session 8	<b>FUN 8</b> Separation techniques for ionic compounds	<b>HYP 8</b> Supercritical fluid chromatography – MS	<b>APP 8</b> Glycomics and glycoproteomics – Celebrating Miloš Novotný 75 <sup>th</sup> birthday
<b>Keynote</b> 16:30–17:00	<b>Paul R. Haddad</b> <b>Method development in HILIC using quantitative structure–retention relationships based on analyte molecular structures</b> Australian Centre for Research on Separation Science Australia	<b>Davy Guillarme</b> <b>SFC-MS: Current status and future directions</b> University of Geneva Switzerland	<b>Miloš V. Novotný</b> <b>LC and LC-MS in service of analytical glycoscience</b> Indiana University USA
<b>Oral 1</b> 17:00–17:20	<b>Mirek Macka</b> <b>Breadboard-type modular microfluidic system as front-end for micro solid phase extraction on-line coupled with capillary ion chromatography</b> University of Tasmania Australia <b>Invited Oral</b>	<b>Laura Akbal</b> <b>Enhancing ionization in supercritical fluid chromatography – electrospray mass spectrometry</b> University of Geneva Switzerland	<b>Andras Guttman</b> <b>Temperature gradient capillary electrophoresis</b> University of Debrecen Hungary <b>Invited Oral</b>
<b>Oral 2</b> 17:20–17:40	<b>Sam Wouters</b> <b>Miniaturized ion chromatographic platform integrating separation, suppression, and detection</b> Vrije Universiteit Brussel Belgium	<b>Julien Crepier</b> 🏆 <b>Hyphenation of supercritical fluid chromatography and high resolution mass spectrometry for the characterization of a fast pyrolysis oil</b> IFPEN France	<b>Anahita Eckard</b> <b>Development of a rapid and robust n-glycan analysis workflow for both LC and CE platforms</b> ThermoFisherScientific USA
<b>Oral 3</b> 17:40–18:00	<b>Christopher Pohl</b> <b>New anion exchange materials based on electrostatically attached hyperbranched condensation polymers</b> Thermo Fisher Scientific USA	<b>Volodymyr Pauk</b> <b>Validation and comparison of ultra-high performance supercritical fluid chromatography and liquid chromatography methods for analysis of new designer drugs in human urine</b> Palacky University in Olomouc Czech Republic	<b>Yehia Mechref</b> <b>Quantitative glycomics of permethylated glycans by porous graphitic carbon (PGC)-LC-MS/MS</b> Texas Tech University USA

🏆 Csaba Horvath Young Scientist Award finalists

Session 8	<b>YOU 8</b> Electromigration techniques
<b>Tutorial</b> 16:30–17:10	<b>Edward S. Yeung</b> <b>Capillary electrophoresis</b> Iowa State University USA
<b>Short oral 1</b> 17:10–17:22	<b>Elena Farcas</b> <b>Optimisation of an electrophoretic approach for the screening and the development of new antithrombotic drugs</b> University of Liège Belgium
<b>Short oral 2</b> 17:22–17:34	<b>Kevin Joof</b> <b>Two-dimensional capillary zone electrophoresis coupled to mass spectrometry for the characterization of monoclonal antibody charge variants on the intact level</b> Aalen University of Applied Sciences Germany
<b>Short oral 3</b> 17:34–17:46	<b>Erzsébet Varga</b> <b>Single-isomer cyclodextrin derivatives in chiral capillary electrophoresis: The past, the present and the future</b> Cyclolab KFT. Hungary
<b>Short oral 4</b> 17:46–17:58	<b>Michal Gregus</b> <b>Capillary electrophoresis-mass spectrometry as a novel technique in analysis of cholesterol and its metabolites</b> Masaryk University Czech Republic

## Wednesday, June 20

8:30 – 10:00

Session 9	<b>FUN 9</b> Separation mechanisms and structural effects	<b>HYP 9</b> Biomarker discovery in metabolomics	<b>APP 9</b> Recent advances in (bio)pharmaceuticals I.
<b>Keynote</b> 08:30 – 09:00	<b>David McCalley</b> <b>A study of the analysis of acidic compounds by hydrophilic interaction chromatography</b> University of the West of England United Kingdom	<b>Michael Lämmerhofer</b> <b>Lipidomics by data-independent acquisition for clinical analysis</b> University of Tuebingen Germany	<b>Koen Sandra</b> <b>Two dimensional liquid chromatography: From clone selection to detailed characterization of monoclonal antibodies and antibody-drug conjugates</b> Research Institute for Chromatography Belgium
<b>Oral 1</b> 09:00 – 09:20	<b>Brett Paul</b> <b>Another 12 months closer to 3D printed HPLC columns!</b> University of Tasmania Australia	<b>Thomas Hankemeier</b> <b>Metabolomics enabling personalized medicine</b> Leiden University Netherlands <b>Invited Oral</b>	<b>Jonathan Bones</b> <b>Manufacturability assessment of monoclonal antibodies using advanced LC-MS</b> National Institute for Bioprocessing Research and Training Ireland
<b>Oral 2</b> 09:20 – 09:40	<b>Rob Haselberg</b> <b>How the heck to get your ideal SEC in the mass spec?! A study into the the elution and ionization behavior of biomacromolecules in aqueous SEC-MS</b> Vrije Universiteit Amsterdam Netherlands	<b>Georgios Theodoridis</b> <b>LC-MS/MS based targeted metabolomics. Application in biomarker discovery and the characterisation of biological and other types of samples</b> Aristotle University Thessaloniki Greece	<b>Valentina D'Atri</b> <b>HILIC-MS: A powerful analytical tool for the profiling of glycosylation patterns of biopharmaceutical proteins at the middle-up level</b> University of Geneva Switzerland
<b>Oral 3</b> 09:40 – 10:00	<b>Dušan Berek</b> <b>Retention mechanisms in liquid chromatography of uncharged synthetic polymers</b> Slovak Academy of Sciences Slovakia <b>Invited Oral</b>	<b>Sophie Bravo-Veyrat</b> <b>High-throughput differential mobility spectrometry-mass spectrometry for monitoring oxidative stress markers in human whole blood</b> Life Sciences Switzerland	<b>Tao Chen</b> <b>De-conjugation coupled with LC-MS for investigating the stability of small molecule drugs in antibody-drug conjugates</b> Genentech, Inc USA

Session 9	<b>YOU 9</b> Monolithic columns
<b>Tutorial</b> 8:30 – 09:10	<b>František Švec</b> <b>Monolithic columns: Why, how, and for what?</b> Beijing University of Chemical Technology China
<b>Short oral 1</b> 09:10 – 09:22	<b>Ashraf Ali</b> <b>Polystyrene bound silica monolith particles as HPLC stationary phase of excellent separation efficiency</b> Inha University Korea
<b>Short oral 2</b> 09:22 – 09:34	<b>Alexandra Ztirakha</b> <b>Preparation and analytical application of novel anion-exchangers for ion chromatography with improved selectivity toward organic acids</b> Lomonosov Moscow State University Russian Federation
<b>Short oral 3</b> 09:34 – 09:46	<b>Benjamin Peters</b> <b>Variation of parameters influencing the immobilization of ligands onto epoxy-modified silica monoliths</b> Merck Germany
<b>Short oral 4</b> 09:46 – 09:58	<b>Martina Komendová</b> <b>Development of monolithic capillary column with an integrated electrochemical detector for the determination of dopamine in urine</b> University of Pardubice Czech Republic

## 10:30 – 12:00

Session 10	<b>FUN 10</b> Organic polymer monolithic and particulate materials	<b>HYP 10</b> MS based omics	<b>APP 10</b> Recent advances in (bio)pharmaceuticals II.
<b>Keynote</b> 10:30 – 11:00	<b>Milton L. Lee</b> Capillary column technologies for nano-flow liquid chromatography Brigham Young University USA	<b>Marcos Eberlin</b> “Chromatography-free” characterization of complex mixtures by mass spectrometry University of Campinas Brazil	<b>Kelly Zhang</b> Multiplexed mLC-nLC for comprehensive impurity profiling: A method development “free” platform Genentech USA
<b>Oral 1</b> 11:00 – 11:20	<b>Jiří Urban</b> Polymer monoliths in the analysis of dopamine Masaryk University Czech Republic	<b>Gunda Koellensperger</b> Selectivity, metabolite coverage and analytical throughput – how to address these conflicting goals in LC-MS based metabolomic workflows? University of Vienna Austria	<b>Yun Huang</b> Leveraging chromatographic speed and efficiency: Integration of analytical SFC into pharmaceutical analysis Pfizer Worldwide Research & Development USA
<b>Oral 2</b> 11:20 – 11:40	<b>José Manuel Herrero-Martínez</b> Influence of an oscillating magnetic field on the separation performance of hybrid monolithic stationary phases for HPLC Universitat de Valencia Spain	<b>Steven Ray Wilson</b> On-line approaches for enhancing automation, robustness and selectivity in nano liquid chromatography-mass spectrometry University of Oslo Norway	<b>Therese Wohlschlager</b> 🏆 Native mass spectrometry for the revelation of highly complex glycosylation in biopharmaceuticals University of Salzburg Austria
<b>Oral 3</b> 11:40 – 12:00	<b>Frédéric Matheuse</b> Possibilities of advanced 3D printing to produce chromatographic supports with 1-micron resolution Vrije Universiteit Brussel Belgium	<b>Giorgia La Barbera</b> UHPLC-QTOF/MS untargeted metabolic profiling for the identification of blood and urinary biomarkers after the consumption of meat and dairy products University of Rome La Sapienza Italy	<b>Balasz Bobaly</b> Improved chromatographic conditions for the characterization of antibody-drug conjugates University of Geneva, University of Lausanne Switzerland

Session 10	<b>YOU 10</b> SFC and SFC/MS
<b>Tutorial</b> 10:30 – 11:10	<b>Isabelle Francois</b> Supercritical fluid chromatography (SFC) Waters Belgium
<b>Short oral 1</b> 11:10 – 11:22	<b>Mariosimone Zoccali</b> Online supercritical fluid extraction-supercritical fluid chromatography-mass spectrometry for carotenoids determination in red habanero peppers Chromaleont srl Italy
<b>Short oral 2</b> 11:22 – 11:34	<b>Kanji Nagai</b> Development of novel poly(vinylpyridine)-based SFC columns and their applications DAICEL Corporation Japan
<b>Short oral 3</b> 11:34 – 11:46	<b>Josephine Lübeck</b> Characterization of fast pyrolysis oils using supercritical fluid chromatography – mass spectrometry and chemometric data analysis University of Copenhagen Denmark
<b>Short oral 4</b> 11:46 – 11:58	<b>Maria Khalikova</b> UHPSFC/ESI-MS lipidomic analysis of tissues and plasma from kidney cancer patients University of Pardubice Czech Republic

14:00 – 15:30

Session 11	<b>FUN 11</b> Thermodynamics and separation mechanisms in LC	<b>HYP 11</b> MALDI in LC coupling and MS imaging	<b>APP 11</b> Food analysis
<b>Keynote</b> 14:00 – 14:30	<b>Pavel Jandera</b> Major role of water in HPLC of polar analytes University of Pardubice Czech Republic	<b>Ron.M.A. Heeren</b> Breaking boundaries in molecular imaging Maastricht University Netherlands	<b>Paola Dugo</b> Multidimensional techniques for the analysis of food products University of Messina Italy
<b>Oral 1</b> 14:30 – 14:50	<b>Torgny Fornstedt</b> A deeper look at how pressure affects the retention mechanism in reversed-phase liquid chromatography Karlstad University Sweden <b>Invited Oral</b>	<b>Jan Preisler</b> Coupling of separation techniques and desorption mass spectrometry Masaryk University Czech Republic <b>Invited Oral</b>	<b>Petr Bednář</b> Study of seed coat composition in relation to dormancy and domestication – utilization of liquid chromatography and mass spectrometry Palacký University Olomouc Czech Republic
<b>Oral 2</b> 14:50 – 15:10	<b>Oleg Krokhin</b> Peptide retention time prediction in RPLC and HILIC: Proteomic techniques help to discover hidden secondary structure effects University of Manitoba Canada	<b>Aleš Svatoš</b> Mass-spectrometric-imaging of living cells: Challenges, solutions, and perspective Max Planck Institute of Molecular Physiology Germany <b>Invited Oral</b>	<b>Nicola Marchetti</b> Insights into structure-bioaccessibility relationships of polyphenols in red chicory by HPLC-MS/MS University of Ferrara Italy
<b>Oral 3</b> 15:10 – 15:30	<b>David Bell</b> Investigations of equilibration dynamics in hydrophilic interaction liquid chromatography (HILIC): Toward a better understanding of retention mechanisms MilliporeSigma/Supelco USA	<b>Bram Heijs</b> Multimodal mass spectrometry imaging analysis of N-linked glycans and proteins from a single tissue section Leiden University Medical Center Netherlands	<b>Riccardo Zenezini Chiozzi</b> Discovery of bioactive peptides from cauliflower (Brassica oleracea) waste protein using a scaled up chromatographic approach University of Rome la "Sapienza" Italy

Session 11	<b>YOU 11</b> Pharmaceutical analysis
<b>Tutorial</b> 14:00 – 14:40	<b>Lois Ann Beaver</b> Biosimilars evolution and demands on analytical scientists USA
<b>Short oral 1</b> 14:40 – 14:52	<b>Lai-Sheung Choi</b> Metabolic study of methylstenbolone in horses The Hong Kong Jockey Club Hong Kong
<b>Short oral 2</b> 14:52 – 15:04	<b>Anita Ayre</b> Analytical quality by design—a methodical approach for the quantitative estimation of teriflunomide from human plasma Dr. L. H. Hiranandani College of Pharmacy India
<b>Short oral 3</b> 15:04 – 15:16	<b>Elise Lemasson</b> Exploring mixed-mode HPLC as an alternative to reversed phase HPLC for impurity profiling of drug candidates ICOA France
<b>Short oral 4</b> 15:16 – 15:28	<b>Nitesh Joshi</b> A normal phase chiral HPLC method for the separation of eight isomers of core + ome Syngene Amgen Research Center India

## 16:00 – 18:00

Session 12	<b>FUN 12</b> Advances in stationary phases	<b>HYP 12</b> Quantitation in LC/MS	<b>APP 12</b> Natural products
<b>Keynote</b> 16:30 – 17:00	<b>Francesco Gasparrini</b> <b>On the use of the sub-2µm chiral stationary phases in enantioselective ultra-high performance chromatography (UHPLC/UHPSFC)</b> Sapienza University of Rome Italy	<b>Karoly Vekey</b> <b>Quantitation in LC-MS: From accurate to approximate</b> Hungarian Academy of Sciences Hungary	<b>Terry Berger</b> <b>Supercritical fluid chromatography (SFC) profiling of hops bittering acids and derivatives using chiral columns</b> SFC Solutions Inc. USA
<b>Oral 1</b> 17:00 – 17:20	<b>Terence Hetzel</b> 🏆 <b>Characterization of peak capacity of microbore liquid chromatography columns using gradient kinetic plots</b> Institute of Energy and Environmental Technology Germany	<b>Kevin A. Schug</b> <b>Further development of liquid chromatography – triple quadrupole – mass spectrometry for top-down intact protein separation and quantitation</b> The University of Texas at Arlington USA <b>Invited Oral</b>	<b>Erwin Rosenberg</b> <b>Characterization of saffron marker- and aroma compounds by one- and comprehensive two-dimensional HPLC-IT-TOF-MS analysis</b> Vienna University of Technology Austria
<b>Oral 2</b> 17:20 – 17:40	<b>Suhas Nawada</b> <b>3D printed cellular automata as optimized stationary phase geometries</b> University of Canterbury New Zealand	<b>Eva Tyteca</b> 🏆 <b>UHPLC-ESI-MS/MS quantitation of natural estrogens in aqueous matrices as pyridine-3-sulfonyl derivatives</b> Université de Liège Belgium	<b>Karine Faure</b> <b>Comprehensive two-dimensional centrifugal partition chromatography- liquid chromatography (CPC x LC): Providing preparative separation for complex plant extracts</b> CNRS Université Lyon 1 France
<b>Oral 3</b> 17:40 – 18:00	<b>Ta-Chen Wei</b> <b>Synthesis of superficially porous monoliths with ordered, elongated mesoporous channels normal to the surface</b> Agilent Technologies USA	<b>Alexander Schriever</b> <b>Analysis of coenzyme A derivatives in breast cancer cells by means of online SPE-HILIC-ESI-MS/MS</b> University of Münster Germany	<b>Maryse Vanderplanck</b> <b>Chromatographic analysis of alkaloids in Aconitum pollen: Towards new insights in plant protection mechanisms</b> University of Liège – Gembloux Agro-Bio-Tech Belgium

Session 12	<b>YOU 12</b> Scientific writing & publishing
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**Paul R. Haddad**  
Australian Centre for Research on Separation Science  
Australia

**Emily Hilder**  
University of South Australia  
Australia

**František Švec**  
Beijing University of Chemical Technology  
China

This session will provide an overview of the processes and pitfalls that occur in the dissemination of scientific research, particularly publishing of scientific research in high quality journals, but will also include advice of the preparation and presentation of posters at scientific meetings. These major components will be discussed: a detailed analysis of the process for preparing a manuscript, selecting a journal and submitting the manuscript for review, responding to reviewers' comments, preparing a revised manuscript.

<b>0 – 10 min</b>	<b>Introduction to the presenters and aims of the session</b>
<b>10 – 35 min</b>	<b>Preparation and submission of a scientific manuscript</b>
<b>35 – 50 min</b>	<b>The review process and how to respond to reviewers</b>
<b>50 – 60 min</b>	<b>Preparation and presentation of posters at scientific meetings</b>
<b>60 – 90 min</b>	<b>Questions and panel discussion</b>

## Thursday, June 21

9:00 – 10:30

Session 13	<b>FUN 13</b> Data analysis, validation and chemometrics	<b>HYP 13</b> MS applications from inorganics to pharmaceuticals	<b>APP 13</b> Clinical analysis
<b>Keynote</b> 09:00 – 09:30	<b>Yvan Vander Heyden</b> Chromatographic fingerprints, experimental designs and multivariate calibration to study interesting compounds in plants. Case study indole alkaloids from <i>psychotria nemorosa</i> Vrije Universiteit Brussel Belgium	<b>Uwe Karst</b> Tracing metallopharmaceuticals in the human body in space and time: The complementary power of separations and imaging techniques University of Muenster Germany	<b>Ian D. Wilson</b> Digging deeper into the metabolome: Adding ion mobility spectrometry as a 3 <sup>rd</sup> dimension to biomarker discovery and analysis via UPLC-IMS-MS Imperial College London United Kingdom
<b>Oral 1</b> 09:30 – 09:50	<b>Jan Urban</b> Noise characterization and peak deconvolution in liquid chromatography – mass spectrometry based on probability theory University of South Bohemia Czech Republic	<b>Antonín Bednařík</b> 🇨🇪 Thin-layer chromatography coupled to diode laser thermal vaporization ICP MS Masaryk University Czech Republic	<b>Tomasz Baczek</b> Assessment of biogenic amines along with their precursors and metabolites supported by new sample pretreatment and separation solutions Medical University of Gdansk Poland
<b>Oral 2</b> 09:50 – 10:10	<b>María Celia Garcia-Alvarez-Coque</b> Measurement of resolution in complex chromatograms aimed to optimise the separation University of Valencia Spain	<b>Lisa Frensemeier</b> Electrochemical activation of platinum based cytostatics investigated by means of liquid chromatography and mass spectrometry University of Münster Germany	<b>Makoto Tsunoda</b> One-minute separation of five biothiols using amide-modified liquid chromatography chip University of Tokyo Japan
<b>Oral 3</b> 10:10 – 10:30	<b>Ludivine Ferey</b> Quality-by-design, a powerful tool for analytical method development in pharmaceutical analysis: Case of multiproduct separation ChemBioPharm team France	<b>Stefanie Wernisch</b> Isomer separations of plasma metabolites by differential mobility coupled to tandem mass spectrometry University of Michigan USA	<b>David Friedecký</b> Untargeted metabolomics in diagnosing inherited metabolic diseases Palacký University in Olomouc Czech Republic

Session 13	<b>YOU 13</b> Ultrahigh-performance liquid chromatography
<b>Tutorial</b> 9:00 – 09:40	<b>Frank Steiner</b> Understanding instrumental parameters that affect method transfer in UHPLC separations (some are easily overlooked) Thermo Fisher Scientific Germany
<b>Short oral 1</b> 09:40 – 09:52	<b>Justine Ferey</b> Exploration by UHPLC-HRMS of the enzymatic phosphorylation of pyrimidine nucleosides ICOA France
<b>Short oral 2</b> 09:52 – 10:04	<b>Yabin Wen</b> Retention prediction in reversed phase HPLC using quantitative structure-retention relationships applied to the hydrophobic subtraction model Australian Centre for Research on Separation Science (ACROSS) UTAS Australia
<b>Short oral 3</b> 10:04 – 10:16	<b>Nazli Mert Ozupek</b> Artificial neural network in the prediction of gradient retention times for rebaudioside A in liquid chromatography Dokuz Eylül University, Graduate School of Natural and Applied Sciences Turkey
<b>Short oral 4</b> 10:16 – 10:28	<b>Kahina Slimani</b> Development and validation of an analytical residues method of the Aminopropyl dodecylpropanediamine biocide disinfectant in dairy products by LC-MS/MS Anses France

## 11:00 – 12:30

Session 14	<b>FUN 14</b> Ultra-high resolution separations	<b>HYP 14</b> High-throughput, data processing and bioinformatics	<b>APP 14</b> Environmental analysis
<b>Keynote</b> 11:00 – 11:30	<b>Sebastiaan Eeltink</b> <b>Advancing native protein separations by size exclusion and hydrophobic interaction chromatography</b> Vrije Universiteit Brussel Belgium	<b>Gabriel Vivo-Truyols</b> <b>Bayesian methods for data analysis in HPLC: A paradigm shift</b> University of Amsterdam Netherlands	<b>Michael Thurman</b> <b>Analysis of hydraulic fracturing fluids by chromatographic and accurate mass techniques: Novel approaches to a new environmental problem</b> University of Colorado USA
<b>Oral 1</b> 11:30 – 11:50	<b>Ken Broeckhoven</b> <b>Elucidating the contribution of injection and detection to dispersion in liquid chromatography using light-induced fluorescence measurements</b> Vrije Universiteit Brussel Belgium	<b>Pawel Wiczling</b> <b>How to quickly find a desired separation? Integration of information and decision-making in chromatography</b> Medical University of Gdańsk Poland	<b>Christian Klampfl</b> <b>Investigations on the metabolization of non-steroidal anti-inflammatory drugs in cress (<i>Lepidium sativum</i>) grown hydroponically in drug contaminated water</b> Johannes Kepler-University Austria
<b>Oral 2</b> 11:50 – 12:10	<b>Stefan Lamotte</b> <b>High resolution in liquid chromatography – that's what dreams are made of</b> BASF SE Germany	<b>Oscar Nuñez</b> <b>Liquid chromatography, mass spectrometry and chemometrics for the identification of frauds in extra-virgin olive oil authentication</b> University of Barcelona Spain	<b>Jean-Christophe Garrigues</b> <b>Microporous organogel materials for sample preparation and green SFC and U-HPLC separations</b> CNRS France
<b>Oral 3</b> 12:10 – 12:30	<b>Takuya Kubo</b> <b>New platform for simple and rapid protein-based affinity reactions</b> Kyoto University Japan	<b>Kerstin Zawatzky</b> <b>Pushing the speed limit for high throughput LC-MS analysis in support of pharmaceutical development research</b> Merck & Co., Inc. USA	<b>Bin He</b> <b>Characterization of mercury-binding proteins in human neuroblastoma SK-N-SH cells with immobilized metal ion affinity chromatography</b> Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences China

Session 14	<b>YOU 14</b> Clinical analysis
<b>Tutorial</b> 11:00 – 11:40	<b>Boguslaw Buszewski</b> <b>Similarity, selectivity, and specificity (3s) – three dimensional factor determining HPLC resolution</b> Nicolaus Copernicus University Poland
<b>Short oral 1</b> 11:40 – 11:52	<b>Joachim Nagler</b> <b>Systems for detection of monoamines in tissues beyond brain</b> Helmholtz Center Munich Germany
<b>Short oral 2</b> 11:52 – 12:04	<b>Zdeněk Spáčil</b> <b>Discovery and quantification of metabolic markers attributed to the activity of intestinal microbiota</b> Masaryk University Czech Republic
<b>Short oral 3</b> 12:04 – 11:16	<b>Līga Priecina</b> <b>Bioactive compounds of steam-blanched and differently dried onions</b> Latvia University of Agriculture Latvia
<b>Short oral 4</b> 11:16 – 11:28	<b>Wan-Ling Liu</b> <b>Determination of phenolic acids using activated carbon-polymer extraction column</b> Chung Yuan Christian University Taiwan, Province of China



**13:30 – 15:45**

**Closing Plenary Session**

13:30 – 13:40 **Medal Ceremony**

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13:40 – 14:10 **Alberto Cavazzini**

**Ultrafast chiral separations on modern chiral stationary phases: Considerations on the impact of the particle geometry on the kinetic performance of the column**

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14:10 – 14:40 **Norman Dovichi**

**Capillary electrophoresis as a tool for bottom-up proteomics**

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14:40 – 15:10 **Doo Soo Chung**

**Sample preconcentration techniques in-line coupled with capillary electrophoresis-mass spectrometry**

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15:10 – 15:25 **Invitations from 3 future chairmen**

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15:25 – 15:45 **Closing ceremony**

**Csaba Horváth Young Scientist Award & Best Poster Award**

## List of Posters

First name	Last name	Affiliation	Country	Title
Ahmed	Abdel-Megied	Faculty of Pharmacy, Kafrelsheikh University	Egypt	Development a novel LC-MS/MS method for simultaneous quantification of sofosbuvir and daclatasvir combined dosage form in human plasma: Application to pharmacokinetic study
Theodora	Adamopoulou	University of Amsterdam	Netherlands	3D-printed microfluidic devices for spatial two-dimensional separations: Design through computational fluid dynamics
Mohammad	Al-Sayah	Genentech	USA	Assessing "in-vivo" inter-conversion of chiral drug molecules by 2D LC-SFC-MS
Jason	Anspach	Phenomenex	USA	Method transfer considerations when transferring methods to sub 2 $\mu$ m GFC columns for bioanalysis
Alina	Astefanei	University of Amsterdam	Netherlands	SAWN-MS for the ultrafast & highly sensitive characterisation of small and macro-molecules
Julia	Baek	Thermo Fisher Scientific	USA	Separation of impurities from a fully phosphothioated and 2'-O-methylated RNA using ion-pair reversed-phase chromatography
Mathijs	Baert	Ghent University	Belgium	Improving peak refocusing in comprehensive two-dimensional liquid chromatography via the combination of aqueous temperature responsive with reversed phase LC
Ewa	Bartosínska	Department of Biopharmaceutics and Pharmacodynamics, Medical University of Gdańsk	Poland	Development and validation of HPLC-APCI-MS/MS method for quantitative determination of tocotrienols in human breast adipose tissue
Stefanie	Bäurer	University of Tübingen	Germany	Comparison of orthogonality of commercially available hydrophilic interaction liquid chromatography stationary phases and ion-pair reversed-phase liquid chromatography
Jakub	Bělehrad	Masary University	Czech Republic	Capillary electrophoresis of selenium species with substrate-assisted laser desorption ICP MS detection
Raffaella	Berger	University of Regensburg	Germany	D-2 hydroxyglutarate dehydrogenase assay reveals regulation of D-2-hydroxyglutarate degradation
Gerlinde	Bichl	Biomin Holding	Austria	Detection and quantification of fumonisins and hydrolysed fumonisins in biological matrices with LC-MS/MS
Ilze	Birznieks	Thermo Fisher Scientific	USA	Separation and characterization of NIST monoclonal antibody standard using a suite of chromatographic methods
Helene	Boiteux	Waters Corporation	USA	Transferring and improving a legacy HPLC-UV cleaning validation method by employing UHPLC and mass detection
Barbara	Bojko	Faculty of Pharmacy, Nicolaus Copernicus University in Torun, Poland	Poland	SPME-LC-MS: The new potential for in situ and in vivo brain tumor studies
Lucie	Borovcova	Faculty of Science, Palacký University Olomouc	Czech Republic	Comparison of ultra-high performance liquid chromatography and supercritical fluid chromatography methods for analysis of photoinitiators as potential food contaminants

First name	Last name	Affiliation	Country	Title
Lein Jan	Bostelaar	Vishay BCcomponents B.V.	Netherlands	HPLC-QTOF-MS analysis of the esterification and amidization of complex ammonium branched chain carboxylate salt mixtures
Juliane	Böttcher	KNAUER Wissenschaftliche Geräte GmbH	Germany	Sensitive online SPE determination of bisphenol A in water samples
Ezel	Boyaci	University of Waterloo	Canada	Development of a high throughput SPME-HPLC-MS/MS in-vitro assay for monitoring time course changes in kinetics and dynamics of cell line systems
Stephan	Buckenmaier	Agilent Technologies	Germany	Active matrix modulation for enhanced separation compatibility in two-dimensional liquid chromatography
Wolfgang	Buchberger	Johannes-Kepler-University Linz	Austria	Residue analysis of pharmaceuticals in plants
Magdalena	Buszewska-Forajta	Medical University of Gdańsk	Poland	CE-LIF method development and validation for the determination of selected pterins in urine samples
Ken	Butchart	Fortis Technologies Limited	United Kingdom	New core-shell particles for Biomolecule analysis
Meiqiang	Cai	Zhejiang Gongshang University	China	Magnetic solid-phase extraction based amino-modified metal-organic frameworks coupled with LC-MS/MS for the determination of chlorophenols from environmental water samples
Niamh	Cantwell	UCC	Ireland	Investigating new particle assemblies, packing and detection platforms for improved chromatographic efficiencies and speed
Giuseppe	Carlucci	University "G.d'Annunzio"	Italy	UHPLC-PDA analysis of oxyprenylated phenylpropanoids in olive, soy, peanuts, corn and sunflower oil using deep eutectic solvent dispersive liquid-liquid micro-extraction technique
Jitka	Caslavska	University of Bern	Switzerland	Analysis of genetic variants of transferrin in human serum after desialylation by capillary zone electrophoresis and capillary isoelectric focusing
Stephanie	Cassel	Université Paul Sabatier Toulouse III	France	Qualitative and quantitative analysis of polyglycerol esters mixtures used in cosmetic formulations
Martina	Catani	University of Ferrara	Italy	Study of mass transfer phenomena in core-shell and sub-2µm fully porous chiral stationary phases for ultrafast high-performance enantioseparations
Olivier	Ciclet	University of Geneva	Switzerland	Evaluation of a novel atmospheric pressure ionization source (UniSpray™) for natural compounds analysis
Alessia	Ciogli	Sapienza, università di Roma	Italy	From sub 2-micron fully porous teicoplanin-based zwitterionic chiral stationary phases to 2-micron superficially porous ones: What can we expect in terms of efficiency gain?
Ken	Cook	ThermoFisher Scientific	United Kingdom	Novel ways to directly introduce salt based chromatography techniques of SEC and IEX of biopharmaceutical proteins into High Resolution Mass Spectrometry
Jo	Daems	Water-link	Belgium	Comparison of different interfaces in LC-MS/MS in the determination of glyphosate and AMPA
Cihan	Demir	Hacettepe University	Turkey	Hybrid stationary phases with retention independent separation performance in nano-hydrophilic interaction chromatography

First name	Last name	Affiliation	Country	Title
Wang-Hsien	Ding	National Central University	Taiwan, Province of China	Rapid screening of parabens in human urine samples by ultrasound-assisted liquid-liquid microextraction and isotope dilution UHPLC-QTOF-MS
Amanda	Dlugasch	Waters Corporation	USA	Automating mobile phase pH for peptide mapping for LC-UV-MS methods
Annika	Doell	AbbVie Germany	Germany	Development of a sensitive nano LC-MS approach for the in-vivo analysis of antibodies on peptide level
Boglárika	Dönczö	Horváth Csaba Laboratory of Bioseparation Sciences, University of Debrecen, Hung	Hungary	Capillary electrophoretic analysis of the N-glycome of formalin fixed paraffin embedded mouse tissue samples
Noemi	Dorival-Garcia	NIBRT	Ireland	Identification and monitoring leachables from Single-Use Bags (SUBs) for mammalian cells culture by Dispersive Liquid-Liquid Microextraction (DLLME) followed by UHPLC-QToF-MS
Bernhard	Drotleff	University of Tuebingen	Germany	Quantification of steroid hormones in plasma using a surrogate calibrant approach and HPLC-HR-MS/MS with SWATH-Acquisition
Melissa	Dunkle	Dow Benelux	Netherlands	High-throughput data processing of accurate mass LC-MS data for the characterization of low molecular weight polymers
Kevin	Eckey	University of Muenster	Germany	Degradation products of sulfamethoxazole after treatment with chlorine dioxide
Sebastiaan	Eeltink	Vrije Universiteit Brussel	Belgium	A comprehensive study to the effects of mobile-phase composition on protein retention in hydrophobic interaction chromatography
Hamed	Eghbali	The Dow Chemical Company	Netherlands	Gel permeation chromatography with reduced column dimensions for industrial applications
Albert	Elmsjö	Uppsala University	Sweden	Selectivity evaluation using the co-feature ratio in LC/MS metabolomics: comparison of HILIC columns performance for the analysis of plasma, urine and cell extracts
Yukihiko	Esaka	Gifu Pharmaceutical University	Japan	Development of highly sensitive methods for detection of damaged nucleotides by using CE enrichment coupled with on-line complexation followed by ESI-MS measurement
Joanna	Fabrowska	Adam Mickiewicz University in Poznań	Poland	HPLC as a tool to valorize freshwater green macroalgae from Poland
Evelin	Farsang	University of Pannonia	Hungary	Study of retention behavior of bioactive macromolecules in ultrahigh pressure liquid chromatography
Guzmán	Favre	Facultad de Agronomía Universidad de la República (UDELAR) Uruguay	Uruguay	Study of the glycosidic bond homolytic cleavage under a HPLC-ESI-MSD system, as a tool for the identification of new acylated flavonol glucosides in grapes and wines
Simona	Felletti	University of Ferrara	Italy	Experimental and theoretical study of kinetic performance of modern fully porous and superficially porous C18 columns
Vincenzo	Ferrone	University "G. d'Annunzio"	Italy	UHPLC-PDA determination of five antibiotics in human plasma using air assisted dispersive liquid-liquid microextraction with solidification of the floating organic droplets
Jan	Fiala	Masaryk University	Czech Republic	HILIC or ERLIC; could we distinguish them?
Jakub	Fibigr	Charles University, Faculty of Pharmacy	Czech Republic	Rapid UHPLC determination of anthocyanins in acai berry and dry blueberry extracts

First name	Last name	Affiliation	Country	Title
Martin	Franc	Watrex Praha, s. r. o.	Czech Republic	Beer fingerprinting and identification by principal component analysis (PCA) of HPLC data for mono- and oligo- saccharide profiles
Beatriz	Fresco	University of Córdoba	Spain	Incorporation of single-walled carbon nanohorns in methacrylate monoliths for nano liquid chromatography
Peter	Fruehauf	University of Vienna	Austria	New achiral strong cation-exchange type (SCX) and zwitterion-exchange type (ZWIX) stationary phases for the separation of basic analytes in different chromatographic modes
Yanqing	Fu	Dalian Institute of Chemical Physics, Chinese Academy of Sciences	China	Nontargeted screening method for illegal additives based on ultrahigh-performance liquid chromatography-high-resolution mass spectrometry
Yuka	Fujito	Shimadzu Corporation	Japan	Development of new polymer-based column for supercritical fluid chromatography
Ana M.	Garcia-Campana	Facultad De Ciencias	Spain	Molecularly imprinted polymer solid phase extraction coupled with HILIC UHPLC-MS/MS as a new strategy for monitoring aminoglycoside residues in milk samples and functional foods
Karen	Gaudin	ChemBioPharm, ARNA Inserm U1212, UMR CNRS 5320	France	Impact of structural variations on chromatographic analysis of a new amphiphilic class: lipid antisense oligonucleotides
Oksana	Gorbatiuk	Institute of Molecular Biology and Genetics of NASU	Ukraine	Efficient method for the obtaining of Recombinant Human Apoptosis signal-regulating kinase 1 (ASK1) in Escherichia coli
Paulina Zofia	Goryńska	Collegium Medicum Nicolaus Copernicus University in Bydgoszcz	Poland	Solid phase microextraction for brain tumor metabolite analysis
Rossella	Gottardo	University of Verona	Italy	UPLC-QqQ-MS analysis of gamma-HB and its isomers, alpha-HB and beta-HB, in serum: novel perspectives in the forensic GHB determination
Michal	Gregus	Masaryk University	Czech Republic	Capillary electrophoresis-mass spectrometry as a novel technique in analysis of cholesterol and its metabolites
Gino	Groeneveld	University of Amsterdam	Netherlands	Fast development of LC×LC methods for the characterization of polyether polyols
Yasmine	Grooten	Vrije Universiteit Brussel (VUB)	Belgium	Development of a supercritical fluid chromatographic system to predict the skin permeability of pharmaceutical compounds
Anja	Grüning	Shimadzu Europa GmbH	Germany	Fully automated derivatization -quantification of glyphosate and AMPA in beer using a standard UHPLC-MS/MS system
Eugenia	Guerra	University of Santiago de Compostela	Spain	Simultaneous determination of 19 synthetic water-soluble dyes in products intended for children by matrix solid-phase dispersion and liquid chromatography-tandem mass spectrometry
Yidan	Guo	SINOPEC	China	Simultaneous identification of trace organic impurities in purified terephthalic acid by ultra-high performance liquid chromatography-quadrupole time-of-flight mass spectrometry
Maja	Hadzieva Gigvoska	Alkaloid AD Skopje	Macedonia (the former Yugoslav Repu	Experimental design approach used for optimisation of forced degradation study of atorvastatin by LC/MS characterisation of the degradation products

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Roman	Hajek	University of Pardubice	Czech Republic	HILIC-HPLC/ESI-MS analysis of gangliosides in biological samples
Tomáš	Hájek	University of Pardubice	Czech Republic	Automated dual comprehensive HILIC×RP+RP×RP liquid chromatography for separation phenolic compounds
Yehua	Han	State Key Laboratory of Heavy Oil Processing	China	Direct analysis and discrimination of thiophenic and sulfidic compounds in crude oils
Annelie	Hansson	Uppsala University	Sweden	Using UHPLC-HR-MS to investigate the equine metabolites of the selective androgen receptor modulator LGD-4033 for doping control purposes
Takeshi	Hara	Research Center for Transomics Medicine	Japan	Investigation of column performance of monolithic silica capillary columns with very narrow column diameter
Agnes	Heering	University of Tartu	Estonia	Unified pH of LC mobile phases
Paula	Hong	Waters Corporation	USA	Fraction collection for isolating impurities in forced degradation studies
Patric	Hörth	Agilent Technologies	Germany	Supercritical fluid chromatography with flexible injection volumes and highest precision on the Agilent 1260 Infinity II Analytical SFC System
Katarína	Hroboňová	Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava	Slovakia	Selective extraction of coumarins by using molecularly imprinted polymers. Preparation, characterization and application of sorbents
Han-Yin	Hsiao	Fu Jen Catholic University	Taiwan, Province of China	Analysis of heterocyclic amines in meat by the QuEChERS coupled with liquid chromatography-diode array-tandem mass spectrometry
Yang	Huang	Institute of Pharmaceutical Analysis and Laboratory for the Analysis of Medicine	China	Development and validation of a fast SFC method for the analysis of flavonoids in plant extracts
Anastasia Chrysovalantou	Chatziioannou	Aristotle University of Thessaloniki, Greece	Greece	Case-control metabolomics study of neonatal sepsis and necrotizing enterocolitis. Untargeted & targeted approaches
Chao-Yu	Chen	Fu Jen Catholic University	Taiwan, Province of China	Targeted lipidomics profiling of acute arsenic exposure in mice serum by on-line solid-phase extraction stable-isotope dilution liquid chromatography-tandem mass spectrometry
Dong-ying	Chen	Shanghai Institute of Materia Medica, CAS	China	Investigation of influencing factors for trace level of methyl p-toluenesulfonate control in pharmaceutical with gas chromatography coupled with mass chromatography detection
Kai	Chen	Janssen, Pharmaceutical Companies of Johnson & Johnson	Belgium	Development of QC-friendly 2D-LC methods in pharmaceutical laboratories
Wu	Chen	Agilent Technologies	USA	The superficially porous particles that were recently developed for separation of small molecules and large biomolecules are reviewed
Yi-Chen	Chen	Natioanl Taiwan University	Taiwan, Province of China	Determination of amino acid and carnosine/anserine contents of functional egg chalaza hydrolysate and its hepatoprotection against liver fibrosis
Cheanyeh	Cheng	Chung Yuan Christian University	Taiwan, Province of China	Development of 2-dimensional liquid chromatography-ion trap mass spectrometry for online microextraction, separation and analysis of ionophore coccidiostat residues in chicken eggs
Ruxandra	Chira	"Iuliu Hatieganu" University of Medicine and Pharmacy	Romania	Recent advances on the oxidative biotransformation of several beta-blockers

First name	Last name	Affiliation	Country	Title
Michaela	Chocholoušková	University Pardubice	Czech Republic	Analysis of eicosanoids in biological samples using the coupling of separation techniques and mass spectrometry
Jung Hoon	Choi	Korea University	Republic of Korea	Chemical characterization of soil organic matter in the foreland of midtre lovenbreen glacier in Svalbard using ultra-high resolution 15T FT-ICR mass spectrometry
Lucia	Chrenková	Charles University, Faculty of pharmacy	Slovakia	Mixed mode stationary phases: Effect of mobile phase type and its ionic strength on separation
Marcin	Chutkowski	Rzeszow University of Technology	Poland	Retention behavior of selected test substances in a diamond-based core-shell Flare HILIC column – preliminary investigations
Dmitrii	Iaroshenko	CSU "Analytical Spectrometry"	Russian Federation	LC-MS/MS method for simultaneous determination of fingolimod (FTY720) and fingolimod phosphate (FTY720-P) in human blood
Marion	Iguiniz	Institut des Sciences Analytiques	France	Development of LCxLC-UV/MS platform as analytical strategy for the analysis of pharmaceutical compounds
Koji	Ikeda	Keio University	Japan	Development of purification method for proteins utilizing temperature-responsive affinity chromatography
Omar H.	Ismail	Sapienza, University of Rome	Italy	Pushing the efficiency of chiral super critical fluid chromatography to unexplored limits with sub 2-micron Whelk-O1 fully porous chiral particles
Naja Wessel	Jacobsen	LEO Pharma	Denmark	2D-LC with multiple heart-cutting – Three cases where 2D-LC was the technique needed to solve impurity related problems in drug products
Pavel	Jakubec	Faculty of pharmacy in Hradec Králové, Charles University	Czech Republic	SFC in chiral separations: Evaluation of equivalency of polysaccharide enantioselective stationary phases
Karol	Jaroch	Nicolaus Copernicus in Torun, Collegium Medicum in Bydgoszcz	Poland	The use of solid phase microextraction (SPME) for metabolomic analysis of cell culture after administration of combretastatin A4 phosphate
Gabor	Jarvas	MTA-PE Translational Glycomics Research Group	Hungary	Simulation based investigation of the electroosmotic flow in capillary electrophoresis columns in the presence of forced convection
Priya	Jayaraman	Waters Corporation	USA	Advanced topics in peptide mapping: Developing reproducible high resolution separations
Viola	Jeck	University of Münster	Germany	Localization of lipids' double bond position by means of post column Paternò Büchi derivatization and tandem mass spectrometry
Jaroslav	Jenčo	Charles University, Faculty of Pharmacy in Hradec Králové	Czech Republic	Chromatographic analysis of thiamine and its derivatives for routine diagnostics in whole blood
Micong	Jin	Ningbo Municipal Center for Disease Control and Prevention, Ningbo, Zhejiang, 31	China	Ionic liquid modified metal-organic framework composite as dSPE material and LC-MS/MS for determination of glyphosate, bialaphos and thier metabolins in environmental water
Amy	Johnson	Keele University	United Kingdom	The use of HPLC-MS in the metabolomic analysis of chicken eggs over time
Pieter	Joos	water-link	Belgium	Screening methodology for the determination of unknowns in drinking, surface and waste waters
Stephanie	Jung	Agilent Technologies	Germany	High-resolution sampling 2D-LC for pharmaceutical impurity analysis - detection of impurities hidden under the API peak at relevant levels

First name	Last name	Affiliation	Country	Title
Julia	Kahle	TU Braunschweig	Germany	The next generation of capillary electrophoresis: CE-SDS instrument evaluation for protein analysis
Ty	Kahler	Restek Corporation	USA	Affecting selectivity and HILIC retention on a fluorophenyl stationary phase
Matthias	Kamuf	Agilent Technologies	Germany	Influence of glass vial type upon trace level recovery rates of basic analytes by LC/MS/MS
Eisuke	Kanao	Kyoto University	Japan	Importance of hydrogen bonding on deuterium isotope effects in liquid chromatographic separation
Hideko	Kanazawa	Keio University	Japan	Temperature-responsive molecular recognition chromatography using amino acid derived polymer modified silica beads
Helena	Kazoka	Latvian Institute of Organic Synthesis	Latvia	Stationary phase selection for achiral separation of diastereomeric mixtures
Gao	Ke	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences	China	A fully automatic and accurate method for simultaneous determination of 38 per- and polyfluoroalkyl substances in human serum
Young Hwan	Kim	Korea Basic Science Institute	Republic of Korea	Identification of possible biomarkers for breast tumor mice from phospholipids profiling determined by using MALDI Imaging and UPLC/MS
Cigdem	Kip	Hacettepe University	Turkey	Phosphopeptide enrichment via immobilized metal affinity chromatography using phosphonic acid functionalized capillary monolith as a stationary phase in a microfluidic system
Sáva	Klabačková	Charles University	Czech Republic	Application of miniaturized extraction techniques for analysis of tocopherols in clinical practice – first results
Julia	Klein	University Duisburg-Essen	Germany	Analysis of a Chinese herb formulation with HPLC and high resolution IM-qTOF-M
Jitka	Klikarová	University of Pardubice	Czech Republic	HPLC separation of derivatized amino acids in mead
Hiroshi	Kobayashi	Shinwa Chemical Industries, Ltd.	Japan	Effect of acidic additives on peak capacity and detectivity in peptide mapping using nano-flow LC/MS with low-density C18 monolithic silica capillary columns
Lucie	Kolatorova	Institute of Endocrinology	Czech Republic	New LC-MS/MS method for determination of plasma bisphenols, parabens and estrogens revealed three times higher levels of bisphenol F than bisphenol A in healthy men
Brooke	Koshel	Waters Corporation	USA	Tracking and reporting synthetic peptide impurities with a cost-effective single quadrupole mass detector for improved confidence in analysis
Zsuzsanna	Kovács	Horváth Csaba Memorial Institute of Bioanalytical Research	Hungary	Search for multiple myeloma glyco biomarkers by CE-LIF
Claudia	Kowalczyk	PhD student	Germany	Investigation of an extraction and separation method for the analysis of mercury species in sediments
Stephan	Koza	Waters Corp.	USA	Successfully developing and using ultra-high performance size-exclusion chromatography (UHP-SEC) methods for the analysis of biotherapeutic proteins
Lenka	Krcmova	Charles University, Faculty of Pharmacy	Czech Republic	Modern trends in sample preparation techniques in clinical research
Jana	Krenkova	Institute of Analytical Chemistry of the CAS, v. v. i.	Czech Republic	Cationic charge labeling for CE-MS analysis of oligosaccharides



First name	Last name	Affiliation	Country	Title
Jovana	Krmar	Faculty of Pharmacy, University of Belgrade	Serbia	Quantitative structure–retention relationships modelling of aripiprazole and its impurities in micellar liquid chromatography using artificial neural network
Katarzyna	Krzemińska	Nicolaus Copernicus University	Poland	Dual retention mechanism on stationary phases with embedded polar group
Anil	Kuban	Hacettepe University	Turkey	Alkanethiol functionalized organosilicon monoliths via one-pot thiol-methacrylate polymerization for nano-reversed phase chromatography
Kateřina	Kučerová	Charles University, Faculty of Pharmacy in Hradec Králové	Czech Republic	New UHPLC-MS/MS method for determination of urinary retinol in patients with various diseases
Jaromir	Kulhanek	Contipro a.s.	Czech Republic	Determination of the degree of substitution of hydrophobized hyaluronan by gas chromatography
An-Wen	Kung	University of Sheffield	United Kingdom	Studying the effect of monolith porosity on the analysis of nucleic acids using ion pair reversed phase and non-retentive HPLC
Baburaj	Kunnummal	ThermoFisher Scientific	USA	N-Glycan analysis by orthogonal methods: UHPLC and multi-capillary CE
Nándor	Lambert	University of Pécs	Hungary	Analysis of the mass-transfer properties in chromatographic columns using the total pore blocking method
Francisco J.	Lara	University of Granada	Spain	Direct analysis in real time combined with modified quick polar pesticides extraction method to determine highly polar pesticides in lettuce and celery
Lene	Lauridsen	DuPont Nutrition Biosciences ApS	Denmark	Challenges in the analysis of wheat flour phospholipids in dough by LCMS
Catharine	Layton	Waters Corp	USA	The use of orthogonal methods to monitor the major degradation products of cannabidiol (CBD)
Hui-Ling	Lee	Fu Jen Catholic University	Taiwan, Province of China	Simultaneous, fast and simple quantification of oxidative damage biomarker and cotinine in human urine by on-line SPE LC-MS/MS: correlation with tobacco exposure biomarkers NNAL
Jeongmi	Lee	Sungkyunkwan University	Republic of Korea	Deep eutectic solvents as multipurpose media for bioactive natural products
Ji Hyun	Lee	Ministry of Food and Drug Safety	Republic of Korea	Development and validation of an UHPLC-MS/MS method for the simultaneous determination of 13 hair-growth compounds in adulterated products
Marek	Leško	Rzeszow University of Technology	Poland	Evaluating the advantage of higher heat conductivity of a recent core-shell diamond stationary phase particle in UHPLC
Ivona	Lhotská	Faculty of Pharmacy in Hradec Králové, Charles University	Czech Republic	On-line molecularly imprinted solid phase extraction coupled to chromatographic separation for determination of mycoxotin zearalenone in beer samples
Shaoping	Li	University of Macau	Macao	HPLC-Q TOF MS analysis of triterpenes in Ganoderma resinaceum
Yingyu	Li	Agilent Technologies	USA	Development of charged hybrid materials and their application in peptide separation
Yan	Li	Australian Centre for Research on Separation Science (ACROSS)	Australia	The potential of under 250 nm deep UV-LEDs in chemical analysis: 235 nm UV-LED photometric detection in capillary liquid chromatography
Zhimin	Li	Waters	USA	Effective determination of achiral and chiral impurities by two-dimensional liquid chromatography (2DLC)

First name	Last name	Affiliation	Country	Title
Baiwei	Lin	Genentech	USA	Rapid chiral column screening and chiral method development by two-dimensional HPLC-MS
Chao-Tian	Lin	Chung Shan Medical University	Taiwan, Province of China	Isolation and identification of major antioxidant compounds of Jamaica Cherry by HPLC and LC-Mass
Shanhua	Lin	Thermo Fisher Scientific	USA	High resolution LC/MS separation and characterization of chemoenzymatic site-specific engineered antibody-drug-conjugates (ADCS)
Marcello	Locatelli	University "G. D'Annunzio" of Chieti-Pescara	Italy	FPSE-HPLC-PDA method for the determination of twelveazole antimicrobial drug residues in human plasma and urine
Stephen	Lock	Sciex	United Kingdom	CESI-MS detection and quantitation of Neuropeptides
Denise	Loeker	Institut für Energie- und Umwelttechnik e.V.	Germany	Determination of the influence of temperature on the efficiency of miniaturized HPLC-columns
Robert	Ludwig	Shimadzu Europe GmbH	Germany	Advantages of SFC-MS compared to LC-MS in the analysis of small molecules
Lei	Luo	Research Center for Eco-Environmental Sciences, The Chinese Academy of Sciences	China	Molecular-scale investigation on adsorption of dissolved biochar on soil
Frederic	Lynen	Ghent University	Belgium	Chiral stationary phase optimized selectivity supercritical fluid chromatography (SOS-SFC): A novel approach for optimizing the separation of enantiomers
Anne	Mack	Agilent Technologies	USA	Sub-2- $\mu$ m superficially porous particles: Is smaller better?
John	Madden	Thermo Fisher Scientific	USA	The analysis of polar ionic pesticides by ion-exchange chromatography tandem mass spectrometry: The possible solution to a longstanding problematic analysis?
Jurgen	Machielse	Zeochem AG	Switzerland	Peptide and oligonucleotide purification via IEX doped reverse phase chromatography
Egidijus	Machtejevas	Merck KGaA	Germany	Wide pore monolithic silica of various functionalization: Protein A, C18, C8 and C4, in high performance liquid chromatography for large molecule separations
Zdeňka	Malá	Institute of Analytical Chemistry of the Czech Academy of Sciences, v.v.i.	Czech Republic	Electrolyte systems for analysis of very weak acids by anionic isotachopheresis with electrospray-ionization mass-spectrometric detection
Amir	Malek	Genentech	USA	Development and validation of platform chromatography methods for biologics
Nevena	Maljuric	University of Belgrade, Faculty of Pharmacy	Serbia	Stoichiometry and stability constants determination of $\beta$ -cyclodextrin-drug complexes
Claude	Mallet	Waters Corporation	USA	Detection of cocaine and its major metabolites in rodent bones by 2D-LC technology
R. Kenneth	Marcus	Clemson University	USA	Practical implementation of capillary-channeled polymer (C-CP) fiber stationary phases in both dimensions of 2D protein separations
Elisabet	Martin Tornero	University of Extremadura	Spain	Determination of phenantrene metabolites in milk using second and third order multivariate HPLC- fluorimetric signals

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Silke	Matysik	University Hospital Regensburg	Germany	Quantification of steroid hormones in human serum by liquid chromatography-high resolution tandem mass spectrometry
Fernando	Maya Alejandro	Universitat de les Illes Balears	Spain	Strategies for the preparation of metal-organic framework/polymer hybrid beads and monoliths and their applications as sorbents for sample preparation
Margaret	Maziarz	Waters Corporation	USA	Sensitive UPLC method with tandem mass detection for analysis of genotoxic impurities of imatinib mesylate drug
Giulia	Mazzocanti	"Sapienza" università di roma	Italy	Natural cannabinoids analysis by a chemo-enantioselective separation method in eUHPSFC-MS using the new UHPC-Whelk-O1 sub 2 µm CSP
Danielle	McLean	Advanced Chemistry Development (ACD/Labs)	Canada	An informatics based approach to developing a stability indicating method
Xianshuang	Meng	Chinese Academy of Inspection and Quarantine	China	Broad screening of 100 regulated ingredients in cosmetics using UHPLC-Q-Orbitrap mass spectrometry combined with accurate mass database and spectral library search strategy
Brigitta	Mészáros	University of Debrecen	Hungary	Inverse gas chromatography based surface characterization of air plasma treated polydimethylsiloxane samples
Radovan	Metelka	University of Pardubice	Czech Republic	Enhancing the capabilities of electrochemical detection in HPLC-ED with capillary monolithic columns
Paul	Miggels	Leiden University	Netherlands	Sample preconcentration using vision-controlled droplet evaporation for high-throughput LC-MS-based metabolomics
Marek	Minarik	Watrex Praha, s. r. o.	Czech Republic	A novel method and system for analytical recycle HPLC
Imre	Molnár	Chromatography	Germany	Modeling UHPLC separations
Olga	Monago Maraña	University of Extremadura	Spain	Optimization of a solid phase extraction procedure of capsaicinoids from paprika by hplc with fluorimetric detection
Kathryn	Monks	KNAUER Wissenschaftliche Geräte GmbH	Germany	GPC cleanup of olive oil samples
Norikazu	Nagae	ChromaNik Technologies Inc.	Japan	Some hint on how to make a standard UHPLC column with + 300 000 theoretical plates/meter
Osakazu	Nakajima	OSAKA SODA CO., LTD.	Japan	The important properties for an ideal stationary phase
İkbal Demet	Nane	Suleyman Demirel University	Turkey	Method optimization and validation for determination of cetirizine with reversed phase liquid chromatographic method
Jose Antonio	Navarro-Huerta	University of Valencia	Spain	Assisted baseline subtraction in complex chromatograms using the BEADS algorithm
Ioan	Neaga	University of Mons	Belgium	Affinity capillary electrophoresis as fast screening method for the identification of potentially active compounds for DM1 treatment
Nadezhda	Nekrasova	Samara National Research University named after academician S.P. Korolev	Russian Federation	Quantitative structure – retention relationships for quinoline derivatives under conditions of reversed-phase liquid chromatography
Stefan	Neubauer	Eberhard Karls Universität Tübingen	Germany	Comprehensive profiling of amino acid degradation products by LC-HR-MS/MS
Hana	Nevídalová	Masaryk university	Czech Republic	The influence of several drugs on displacement of I tryptophan and lidocaine from binding sites on albumin

First name	Last name	Affiliation	Country	Title
Jennifer	Nguyen	Waters Corporation	USA	A Comparison of the Selectivity of Solid-Core CORTECS Columns and Fully Porous Columns
Aleksandra	Nikitina	CSU "Analytical Spectrometry"	Russian Federation	The methods for determination of drug combinations in human plasma by LC-MS/MS
Naoki	Nishimura	Kyoto University	Japan	Molecular sieving separation of biomolecules with PEG-hydrogel packed capillaries in capillary gel electrophoresis
Suzana Lucy	Nixdorf	Universidade Estadual de Londrina	Brazil	Trattinnickia rhoifolia extract profile and biomarkers determined by HRGC-MS/MS and UPLC-MS/MS for leishmaniasis treatment
Reinhard	Oertel	GWT TU Dresden	Germany	Development and validation of a hydrophilic interaction LC-MS/MS method for the quantification of the antidiabetic drug metformin and six others pharmaceuticals in wastewater
Yukihiko	Okamoto	Osaka University	Japan	Induction of chiral recognition with lipid nano-domains produced by polymerization for high performance chiral separation
Elisa	Ollikainen	Faculty of Pharmacy, University of Helsinki	Finland	Analysis of morphine in mouse plasma by microchip electrophoresis-electrochemical detection
Amvrosios	Orfanidis	School of Medicine	Greece	A UHPLC-MS/MS method for the detection of drugs and pharmaceuticals in human bones
Nevin	Öztekin	Technical University of Istanbul	Turkey	Separation and sensitive detection of lanthanides by capillary electrophoresis and contactless conductivity detection
Juan	Padro	National University of La Plata	Argentina	Chiral separation of aryloxyphenoxy-propionate herbicides in a permethyl- $\beta$ -cyclodextrin based column. Influence of temperature and mobile phase composition on selectivity
Martina	Parmová	Charles University, Faculty of Pharmacy in Hradec Králové	Czech Republic	Polyamide nanofibers as the sorbents for on-line SPE-HPLC determination of Bisphenol A in river water samples
Sachin	Patil	Thermo Fisher Scientific	USA	Glycoprotein monosaccharide analysis using HPAE-PAD for biopharmaceutical quality control
Martin	Pavlačka	University of Pardubice	Czech Republic	Handheld portable device based on differential mobility spectrometry for forensic applications
Jakub	Pavlík	Charles University, Faculty of Pharmacy	Czech Republic	Development and optimization of UHPLC-MS/MS method for analysis of selected antiviral compounds
Debora	Pensi	University of Turin	Italy	Quantification of tacrolimus and everolimus in peripheral blood mononuclear cells of co-treated pediatric patients: a uhplc ms/ms method coupled with automated on-line spe
Jorge	Pereira	CQM – Centro de Química da Madeira, Universidade da Madeira	Portugal	The efficiency of different microextraction approaches in the quantification of bioactive metabolites in food. The case study of coffee
Andrea	Peretzki	University of Leipzig	Germany	On-chip coupling of HPLC and droplet microfluidics for further downstream processes
Leonidas	Perez-Estrada	CIEMAT-PSA	Spain	Application of the OMICs approach for the characterization of complex industrial wastewaters before and after the use of advanced oxidation processes
Jan	Petr	Palacky University in Olomouc	Czech Republic	Characterization of nanoparticles by means of capillary electrophoresis

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Veronika	Pilařová	Faculty of Pharmacy in Hradec Králové, Charles University	Czech Republic	Conventional and modern extraction approaches to the determination of quercetin and its metabolites in rat plasma
Kateřina	Plachká	Charles University, Faculty of Pharmacy	Czech Republic	Determination of lovastatin using UHPLC-MS/MS method and automated SPE procedure with laboratory-made molecularly imprinted polymer sorbent
Rajanna	Prabhakar Koiram	Biocon Bristol Myers Squibb Research Center, Bangalore	India	SFC-QqQ technology to understand metabolism of an achiral Drug to chiral metabolites in biological matrices
Matthias	Pursch	Dow Deutschland Anlagen GmbH	Germany	Sensitivity enhancement in two-dimensional liquid chromatography for target analysis in oligomers and pesticides
Paul	Rainville	Waters Corporation	USA	Ion mobility spectrometry (IMS) combined with UPLC/MS for metabolic phenotyping: Effects of column length, gradient duration and IMS on metabolite detection
Guillermo	Ramis-Ramos	University of Valencia	Spain	Photografting of fluoropolymer tubes for the preparation of organic monolithic columns
Kristen	Randall	Genzyme Sanofi	USA	Implementation of high throughput LC-MS assays with multiplexing and microflow to support drug discovery and development
Arved Ernst	Reising	Philipps-Universität Marburg	Germany	Analysis of packing microstructure and wall effects in a narrow-bore UHPLC column
Florian	Rieck	Agilent Technologies	Germany	High throughput LC/MS purification of pharmaceutical impurities
Vendula	Roblova	Masaryk University	Czech Republic	Liquid chromatography with apci and saldi mass spectrometry detection using silver nanoparticles in cholesteryl esters analysis
Liana	Roca	University of Amsterdam	Netherlands	Development of a two-dimensional liquid chromatography system for the separation of phosphorylated peptides in human tissue
Gilson	Romoaldo	UMONS – faculty of Medicine and Pharmacy	Belgium	Assessing emotional states: Metabonomic profiling and quantification of a salivary biomarker
Gerard	Rosse	Dart NeuroScience	USA	Changing the landscape of super critical fluid chromatography within modern medicinal chemistry
Jean-Marc	Roussel	Analytical Methods Development and Validation	France	About the use of prediction and content tolerance intervals in modern HPLC/UHPLC assay methods validation
Jan	Sadílek	Masaryk university	Czech Republic	The study of 17 $\beta$ -estradiol and 17 $\alpha$ -ethynylestradiol sorption behavior in water-sediment system using QuEChERS
Vania	Sáez	University of Concepción	Chile	Centrifugal partition chromatographic and semi-prep isolation of oligostilbenoids from grape cane extracts and characterization by LC-MS/MS, LC-Q-TOF and NMR
Yohei	Sakaguchi	National Institute of Advanced Industrial Science and Technology (AIST)	Japan	Development of a carboxyl group derivatization LC method for monitoring the deamidation of protein
Imre	Sallay	Osaka Soda, LTD.	Japan	Novel application of standard chromatographic tests of stationary phase characterization in industrial scale HPLC processes
Ron	Salome	Dow Benelux	Netherlands	Impurity profiling of commercial Poly (ethylene glycol) methyl ether methacrylate macro monomer using LC-ELSD/LC-MS

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Friederike	Sandbaumhüter	University of Bern	Switzerland	Enantioselective separation and analysis of six ketamine metabolites using capillary electrophoresis with sulfated $\beta$ -cyclodextrin and highly sulfated $\gamma$ -cyclodextrin
A. Carl	Sanchez	Phenomenex	USA	Chromatographic behavior of biomolecules when using controlled surface charge (U)HPLC sorbents
Cesar	Santana	UNICAMP	Brazil	Analytical challenges associated with the separation and quantification of bioactive compounds from palm oil by ultra-high performance supercritical fluid chromatography
Corinna	Sanwald	University of Tuebingen	Germany	HPLC-ESI-QTOF-MS/MS based quantitative amino acid analysis and simultaneous metabolic profiling of stressed human corneal epithelial cells with data-independent SWATH acquisition
Tsukasa	Sasaki	Analytical and Quality Evaluation Research Laboratories	Japan	Compatibility visualization of aqueous pH with binary organic composition by statistical grid modeling of retention kinetics: A method for optimized reversed phase UHPLC separation
Anna	Savchenkova	Samara National Research University	Russian Federation	Abnormal behavior of some organic analytes in water-acetonitrile solutions in the RP HPLC
Ketsarin	Seebunrueng	Khon Kaen University	Thailand	A new vortex-assisted supramolecular solvent liquid-liquid microextraction followed by high performance liquid chromatography for trace analysis of phenols in water samples
Karen	Segers	Vrije Universiteit Brussel	Belgium	SIFT-MS spectra as an alternative for GC-MS chromatograms to classify healthy, asthmatic and cystic- fibrosis breath samples of children
Alexander	Semyonov	Thermo Fisher Scientific	USA	Enhancing analytical confidence and detection limits for IC and LC applications by coupling them to single quadrupole mass spectrometry
Shiladitya	Sen	Charles river Laboratories	USA	Analytical validation, separation and stability study of multi component formulations – challenges and approach
Shen	Sensen	Peking University	China	Plasma lipidomics reveals perturbed lipid metabolism and identifies potential lipid biomarkers of human colorectal cancer
Mohammad	Shahruzzaman	University of Dhaka	Bangladesh	Pyridinium-based amphiphilic side chains-branched polymer organic phases for high selective HPLC
Etsuko	Shearer	BioNik Inc.	Japan	Evaluation of optimized C30 phase for separation of structurally related isomers
Farnoush	Shishehbori	Department of Quality Assurance, Research and Production Complex, Pasteur Institut	Iran (Islamic Republic of)	A validated HPLC method for quantitative determination of HBsAg in active pharmaceutical ingredient
Gesa	Schad	Shimadzu Europa GmbH	Germany	The power of selectivity and the strength to choose – chiral screening using an SFC / LC switching system
Hagen	Schlicke	KNAUER Wissenschaftliche Geräte GmbH	Germany	Routine analysis of ingredients in wine
Anatol	Schmidt	BOKU – University of Natural Resources and Life Sciences Vienna	Austria	Determination of vitamin B12 using preparative immune-affinity chromatography and UHPLC
Christian	Schmidt	Elementar Analysensysteme GmbH	Germany	A novel, highly robust LC-IRMS solution for high-throughput determination of honey adulteration

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Kate	Sidwick	Keele University	United Kingdom	The effect of freezing duration and number of freeze-thaw cycles on the metabolic profile of meat
Nina	Sillner	Helmholtz Zentrum München	Germany	Retention time indexing in RP-LC-MS based metabolomics for enhancing metabolite identification. A cross-lab trial
Pedro	Silva	Madeira University	Portugal	An useful strategy based on MEPS/UHPLC combined with Quality-by-Design approach for Foodomics applications. The case study of furanic derivatives in sugarcane honey
Jennifer	Simeone	Waters Corporation	USA	Development and comparison of quantitative methods using orthogonal chromatographic techniques for the analysis of potential mutagenic impurities
Amorn	Slosse	Vrije Universiteit Brussel	Belgium	Chemical profiling of cannabis seizures by GC/MS: determination of the inter- and intra-seizure variability
Sara	Smith	MilliporeSigma	USA	Overcoming matrix effect challenges in multi class, multi residue LC/MS/MS analysis via biocompatible solid phase micro extraction (BioSPME)
Elizaveta	Solovyeva	Moscow Institute of Physics and Technology	Russian Federation	Predictive chromatography of peptides for optimized fractionation in bottom-up proteomics
Daniela	Sorio	University of Verona	Italy	HPLC determination of transferrin glycoforms with fluorescent terbium adducts: the tool to detect CDT in post-mortem blood
Rainer	Stoffel	Helmholtz Munich	Germany	Retention time indexing as an approach to standardize reporting of retention data in metabolomics
Alfred	Svan	Division of Analytical Pharmaceutical Chemistry	Sweden	The differences in matrix effects between supercritical fluid chromatography and reversed phase liquid chromatography coupled to ESI/MS analyzing blood plasma
Jozef	Šesták	Institute of analytical chemistry of the CAS, v.v.i.	Czech Republic	New insights into head-column field amplified stacking of weak bases across a short water plug
Vito Alessandro	Taddeo	University G. d'Annunzio	Italy	HPLC-PDA method for the comparison of the extraction methods efficiency of selected prenylated and unprenylated coumarins and cinnamic acids in dill, anise and wild celery
Makoto	Takafuji	Kumamoto University	Japan	Novel pyridinium-based zwitter ionic polymer-grafted porous silica for HILIC stationary phase
Ulrich	Tallarek	Philipps-Universität Marburg	Germany	Morphology based optimization of the packing protocol leading to ultra-efficient capillary columns
Regula	Theurillat	University of Bern	Switzerland	Monitoring of cefepime in human serum and plasma by micellar electrokinetic capillary chromatography and liquid chromatography coupled to mass spectrometry
Jose Ramon	Torres-Lapasíó	University of Valencia	Spain	Gradient design for chromatography using multi-scale optimization
Jung-Kai	Tseng	Asia University	Taiwan, Province of China	Lychee flower extract prevents selenite-induced cataract formation
Tereza	Tůmová	Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences	Czech Republic	Estimation of effective charges and ionic mobilities of strongly basic antimicrobial peptides using capillary electromigration methods
Anna	Tycova	University of Leipzig	Germany	Designing of microfluidic-based capillary electrophoresis with on-line surface enhanced Raman spectroscopy detection
Stefan	Ullrich	Agilent Technologies	Germany	Automated LC/MS purification of compound libraries

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Toms	Upmanis	Latvian Institute of Organic Synthesis	Latvia	Enantioseparation of 4C substituted pyrrolidine-2-ones on polysaccharide type coated chiral stationary phases
Duygu Deniz	Usta	Gazi University	Turkey	Monodisperse-porous titania microspheres with biomodal pore-size distribution as a new stationary phase for DNA microextraction
Anna	Uzhel	Moscow State University	Russian Federation	Covalently-bonded hyperbranched anion-exchangers for ion chromatography
Katleen	Van Den Steen	Water-link	Belgium	Optimization and validation of a UPLC-MS/MS using Unispray for the quantification of pesticide metabolites in surface, ground and drinking waters
Gerd	Vanhoenacker	Research Institute for Chromatography	Belgium	Comprehensive two-dimensional liquid chromatography for detailed characterization of nonionic surfactants
Daura	Vega-Moreno	Universidad de Las Palmas GC (ULPGC)	Spain	On-line miniaturized solid phase extraction (mSPE) for organic pollutant determination at seawater samples
Sofia	Veloutsou	Technical University of Munich	Germany	The serial RPLC-HILIC system for direct injection of high water content solutions to a HILIC column for the separation of polar and very polar compounds
Carola	Vergara	Universidad de Concepción	Chile	Identification and quantification of lignans in Pinus radiata industry forest waste and its comparison through three extractive techniques
Jana	Vitku	Institute of Endocrinology	Czech Republic	Newly developed LC-MS/MS method for determination of 7 $\beta$ -hydroxy-epiandrosterone revealed its higher concentrations in infertile men
Hana	Vlčková	Charles University, Faculty of Pharmacy in Hradec Králové	Czech Republic	Micro-SPE in pipette tips as the tool for analysis of drugs in serum
Terezia	Vojtylova	Institute of Physics of the Czech Academy of Sciences	Czech Republic	Enantioseparation of liquid-crystalline materials by chiral HPLC: Development of the method for various types of functional materials
Dietrich	Von Baer	Universidad de Concepcion	Chile	Quantitative determination of stilbenoids and proanthocyanidins on a C18-Core shell column in series with DAD and fluorescence detection and LC-MS/MS identification
Svetlana	Vorslova	University of Latvia	Latvia	Practical application of solvatic sorption model for method development of phenylisothiocyanate derivatives of amino acids in human biological materials
Christian	Vosse	University of Muenster	Germany	Profiling of constitutional isomeric phospholipids by hydrophilic interaction LC-ESI-MS/MS
Pingshan	Wang	Clemson University	USA	A highly sensitive microwave flow detector for gradient elution liquid chromatography
Qiqin	Wang	Jinan University	China	Preparation and evaluation of a novel choline phos-phate functionalized polymeric monolith for hydro-philic interaction chromatography
Qinggang	Wang	Bristol-Myers Squibb	USA	Quantitative impurity analysis of pharmaceutical compounds by heart-cutting two-dimensional liquid chromatography
Xiaoli	Wang	Agilent Technologies	Germany	Understanding the injection parameters of a new SFC autosampler
Yanmei	Wang	University of Science and Technology of China	China	A novel PMOXA/PAA mixed brush with switchable properties toward on-line concentration of protein in capillary electrophoresis
Yoshiyuki	Watabe	Shimadzu Corporation	Japan	Supercritical fluid chromatography on chiral separation of enantiomeric drugs in human plasma with MS/MS detection



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Kyoko	Watanabe	Shimadzu Corporation	Japan	(U)HPLC basics and beyond: An evaluation of (U)HPLC operating parameters and their effect on chromatographic performance
Bei	Wen	No. 18, Shuangqing Road, Haidian District, Beijing, China	China	Determination of perfluoroalkyl acid isomers in soils, plants and earthworms collected from biosolids-amended fields using UPLC-MS/MS
Ma	Wen	Peking University	China	Cysteine-functionalized metal-organic framework: facile synthesis and high efficient enrichment of N-linked glycopeptides in cell lysate biosample
Nathalie	Wingert	Federal University of Rio Grande do Sul	Brazil	Application of quality by design to optimize LC analysis of drugs and their synthetic impurities: case study for ticagrelor
Ulrich	Woiwode	University of Tuebingen	Germany	Core-shell and fully porous quinine-derived chiral stationary phases for UHPLC, comprehensive LC x LC and LC-MS/MS
Thiago	Wolff	Universidade Federal do Rio de Janeiro	Brazil	On line characterization of flavonoid glycosides in three anti-dengue active Brazilian Faramaea species leaves (Rubiaceae) by HPLC-DAD-ESI-CID-MS/MS
Denise	Wolrab	University of Vienna	Austria	Analysis of amino acids by direct coupling of supercritical fluid chromatography with tandem mass spectrometry
Mark	Woodruff	Fortis Technologies Ltd	United Kingdom	New C18-PFP core-shell particles for increasing resolution
Jufang	Wu Ludvigsson	Analytical	Sweden	The effect of pH on separations of metoprolol and its analogues, omeprazole and its analogues on core-shell columns
Deng-Jye	Yang	China Medical University	Taiwan, Province of China	Determination of phenolic composition of Muntingia calabura Linn. Fruit and its anti-inflammatory effect
Itaru	Yazawa	Imtakt Corporation	Japan	LC-MS analysis columns for intact amino acids and neurotransmitters without derivatization
Pratheeba	Yogendrarajah	Johnson and Johnson	Belgium	Trace level analysis of eleven genotoxic impurities in a penultimate pharmaceutical intermediate using the emerging lc-ms technology, the Acquity® QDa® Mass Detector
Eva	Zbornikova	Czech Academy of Sciences	Czech Republic	Easy and robust method for identification and quantification of nucleotide pool in bacterial cells
Yury	Zelechonok	Cromite	USA	New HPLC Approach
Jana	Zemenová	Institute of Organic Chemistry and Biochemistry AS CR	Czech Republic	Novel approach to determine lipidated analogs of prolactin-releasing peptide via LC-MS using monolithic column
Zhuomin	Zhang	Sun Yat-sen University	China	Rapid and accurate analysis of trace dopamine in mouse striatum by ultrasonic extraction coupling with HPLC-Fluorescence detection
Shishan	Zhao	Charles River Laboratories	Canada	High-performance liquid chromatography (HPLC) of pharmaceutical oligonucleotides in non-clinical toxicology research
Yong-Gang	Zhao	Zhejiang University	China	Fast determination of perchlorate from environmental water using a novel quaternary ammonium modified magnetic covalent organic frameworks followed by LC-MS/MS