

HPLC 2011 Budapest

	Plenary lecture (PL)	Keynote lecture (KN)	Tutorial (T)
Sunday, June 19, 2011			Csaba Horváth Young Scientist Award Nominee
9:00-12:00	Short courses #1 #2 #3		
13:00-16:00	Short courses #4 #5 #6		
	Csaba Horváth Hall	István Halász Hall	Szabolcs Nyiredy Hall
17:00-17:30	Opening Ceremony		
17:30-18:00	Award Presentations		
	<i>Chair</i> László Szepesy		
18:00-18:30	PL 1 G.Guiochon: Recent Progress in Column Technology Begets Progress in our Understanding of Column Efficiency		
18:30-19:00	PL 2 A.Perczel: Dynamical Structure Activity Relationship of Peptides and Proteins		
19:00-21:00	Welcome reception		
Monday, June 20, 2011			
<i>Chair</i>	Peter Schoenmakers		
9:00-9:30	PL 3 Gy.Vigh: A New Preparative-Scale Isoelectrophoretic Trapping Device: Design, Construction and First Characterization		
9:30-10:00	PL 4 G.Bonn: Novel Enrichment and Separation Methods as Fundamental Tools in Bioanalysis		
10:00-10:30	PL 5 M.Morbidelli: Continuous Chromatography (MCSGP) for the Purification of Therapeutic Proteins		
10:30-11:00	Coffee Break/Exhibition		
	Particle technology	DNA & Biopharmaceuticals	Proteomics
<i>Chair</i>	Mark R. Schure	Klára Valkó	Robert Kennedy
11:00-11:30	KN 01 F.Gritti: Toward Higher Chromatographic Efficiency: Future Challenges in Column and Instrument Technologies	KN 02 E.Yeung: Electromigration of Single Protein and DNA Molecules in Nanopores	KN 03 B.Karger: Ultratrace Proteomic Analysis of 10,000 Laser Capture Microdissection Breast Cancer Cells Using 2D/LC/MS with a Porous Layer Open Tubular (PLOT) Column
11:30-11:50	L 01 J.Omamogho: On the Finite Band Width of Particle Size Distribution of Core-shell Particles and the Relationship to their Chromatography Mass Transfer Mechanism	L 04 C.Temporini: Biointeraction Analysis by High Performance Frontal Affinity Chromatography: Immobilized PPAR-gamma Receptor	L 07 A.Cifuentes: The Long Way to a Global Foodomics Approach
11:50-12:10	L 02 B.Boyes: Novel Hydrophilic Bonded-Phase Fused-Core® Particles Demonstrating Highly Efficient HILIC Separations	L 05 M.Laemmerhofer: New Separation Media and Methods for Plasmid DNA Analysis	L 08 S.Eeltink: The Potential of Polymer Monolithic Column Technology in Combination with High-Resolution Mass Spectrometry for the Analysis of Proteins Isoforms
12:10-12:30	L 03 T.Farkas: Current Levels of Performance of Commercial HPLC Columns Made with Core-Shell Sorbent Particles and Further Advancements in the Field	L 06 F.Tomasella: Quality by Design (QbD) in the Development of an Analytical Chromatographic Method	L 09 L.Drahos: A Challenge for nanoUPLC-MS/MS: Determination of Glycosylation Patterns
12:30-13:30	Lunch		

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13:30-14:30	Vendor Seminars (minimum 3 parallel seminars)		
13:30-15:30	Poster Session/Exhibition/Coffee break		
<i>Chair</i>	Michael Laemmerhofer	Tibor Kremmer	Andrew Shalliker
15:30-16:15	T 01 D.McCalley: Hydrophilic Interaction Chromatography: Is it a Viable Complimentary Method to Reversed-phase for the Separation of Polar or Ionisable Compounds?	T 02 J.Pawliszyn: SPME for Liquid Phase Separations	T 03 S.Hjertén: The Requirements for High Reproducibility, High recovery and High Resolution in Electrophoresis, Chromatography, Centrifugation, Diffusion ...
<i>Chair</i>	In memory of Uwe Neue Gyula Vigh	Stationary phases for sample preparation Günther Bonn	Electrodriven methods Marja-Liisa Riekkola
16:15-16:45	KN 04 W.Lindner: Novel HILIC and HILIC-Mixed Mode Stationary Phases: Potentials and Pitfalls	KN 05 K-S.Boos: Chromatographic Adsorbents and their Application in Therapy	KN 06 K.Otsuka: Highly Sensitive Microscale Electrophoretic Analysis of Biogenic Compounds using On-line Sample Concentration
16:45-17:05	L 10 T.Walter: Uwe Neue's Contributions to HPLC Column Technology	L 13 V.Pichon: New Selective Extraction Tool Based on Aptamers for the Sample Pretreatment. Comparison with Immunosorbents and Molecularly Imprinted Polymers	L 16 F.Kilár: Capillary Isoelectric Focusing Combined with MS Detection
17:05-17:25	L 11 M.Gilar: Illustration of Peptide Retention Behavior in HILIC with Retention Prediction Model	L 14 G.Horvai: New Observations on the Isotherm and Kinetics of Molecularly Imprinted Polymers	L 17 H.Stutz: Application of Capillary Electrophoresis for the Characterization of Chemically Modified Allergens
17:25-17:45	L 12 T.Ikegami: New Test Method for Chromatographic Characterization of Hydrophilic Interaction Chromatography (HILIC) Stationary Phases	L 15 J.Haginaka: Monodispersed Molecularly Imprinted Polymer for Selective Extraction of Active Compounds and their Analogues	L 18 J.Chin: An Interface for High Speed Multidimensional Capillary Electrophoresis Separations
19:30	Organ concert		
Tuesday, June 21, 2011			
<i>Chair</i>	In memory of Csaba Horváth Georges Guiochon	Metabolomics Károly Vékey	Pharmaceutical analysis William Hancock
9:00-9:30	KN 07 I.Molnár: Csaba Horváth, the Revolutionizer of Life Science	KN 08 R.Kennedy: Insights to Cellular Function using Microfluidics and LC-MS Based Metabolomics	KN 09 D.Westerlund: Advanced Applications of Separation Science in Pharmaceutical and Biomedical Analysis
9:30-9:50	L 19 Z.El Rassi: Highly Hydrophilic Monolith for Affinity Chromatography at Reduced Nonspecific Interactions	L 22 G. J. de Jong: New CE-MS Systems for Analysis of Biopharmaceuticals	L 25 A.Gjelstad: Electro Membrane Extraction - a Novel Invention for Rapid Bioanalytical Sample Preparation
9:50-10:10	L 20 D.Corradini: Modulation of Migration Behaviour of Biological Molecules in Capillary Electrodriven Separation Systems	L 23 M.Holcapek: Lipidomic Profiling of Biological Tissues and Plasma Using Off-line 2D-LC-MS/MS	L 26 J.Peeters: Applications of Multi-dimensional Chromatography in the Pharmaceutical Industry
10:10-10:30	L 21 D.Guillarme: Analysis of Peptides and Proteins with Fused Core and UHPLC Technologies	L 24 T.Pacchiarotta: A Comprehensive Metabolomics Approach: Applicability to Urinary Tract Infection	L 27 A.de Villiers: Comparison of Off-line, On-line and Stop-flow Comprehensive-2-dimensional Liquid Chromatographic Methods for the Analysis of Phenolic Compounds
10:30-11:00	Coffee Break/Exhibition		

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	In memory of Csaba Horváth	Column technology	Proteomics
<i>Chair</i>	<i>Imre Molnár</i>	<i>Steven A. Cohen</i>	<i>Barry Karger</i>
11:00-11:30	KN 10 J.Frenz: Next-Generation Biologics: Development Challenges for Recombinant Yeast as a Therapeutic Biopharmaceutical	KN 11 M-L.Riekkola: New Functionalized Metal Oxide Materials and Ionic Liquid Modified Silica Materials for Solid Phase Extraction, Capillary Liquid Chromatography and Capillary Electrochromatography	KN 12 W.Hancock: A New Challenge for Separation Science : The Specification of the Parts Lists of the Human Proteome, the Study of Chromosome 17, Human Proteome Project (HPP)
11:30-11:50	L 28 A. Lee: Inspirations from Csaba Horváth in Biotechnology	L 31 M.Abi Jaoudé: Capillary Titania (TiO ₂) Monoliths for Micro-Extraction of Phosphorylated Compounds	L 34 Y.Zhang: New Separation and Identification Techniques for Proteome Analysis
11:50-12:10	L 29 R.Xiang: siRNA Analysis by UPLC and MS Related Techniques	L 32 K.Nakanishi: Structural Approaches to Improved Performance of Monolithic HPLC Columns	L 35 T.Janáky: LC-MS Based Label-free Quantification of Proteins Separated by 1D and 2D Gel Electrophoresis
12:10-12:30	L 30 I.Gusev: Characterization of PEGs and PEGylated Biotherapeutics by Electrospray Ion-Mobility Time-of-Flight Mass Spectrometry coupled with Ion-Molecule Reactions	L 33 I.Nischang: Porous Polymer Monoliths for Small Molecule Separations: Advancements and Limitations	L 36 I.Lazar: A Proteomic Snapshot of Breast Cancer Cell Cycle: The G1/S Transition Point
12:30-13:30	Lunch		
13:30-14:30	Vendor Seminars		
13:30-15:30	Poster Session/Exhibition/Coffee break		
<i>Chair</i>	<i>Karl-Siegfried Boos</i>	<i>Ulrich Tallarek</i>	<i>Janusz Pawliszyn</i>
15:30-16:15	T 04 K.Vékey: HPLC-MS: A Big Challenge or a Perfect Solution?	T 05 S.Jacobson: Transport, Sensing, and Separations in Nanofluidic Devices	T 06 B.Walczak: Chemometrics and Chromatographic Fingerprints
<i>Chair</i>	In memory of Csaba Horváth	Microfluidics	Chemometrics
<i>Chair</i>	<i>Ernö Tyihák</i>	<i>Frantisek Foret</i>	<i>Paul R. Haddad</i>
16:15-16:45	KN 13 K.Valkó: Applications of bio-mimetic HPLC for the estimation of in vivo distribution of drug discovery compounds	KN 14 J.Kutter: Microfabricated carbon nanotube based separation columns for microchip electrochromatography	KN 15 Y.Vander Heyden: Experimental design based method development and its translation to chromatographic methods
16:45-17:05	L 37 E.Bouvier: Rapid Ultra-Performance Size-Based Separations of Biomolecules	L 40 S.Fanali: Usefulness of Monolithic Frits, Obtained with UV-LED Polymerization, for Applications in nano-LC and CEC	L 43 G.Vivo-Truyols: Smart peak detection in comprehensive two-dimensional chromatography
17:05-17:25	L 38 D.Farnan: Using UHPLC and Design Of Experiments (DOE) to Develop High-Throughput Charge Heterogeneity Analysis of Monoclonal Antibodies	L 41 R.Ishibashi: Development of Pressure-Driven Chromatography in Extended Nanochannels: Toward High Resolution Separation	L 44 J.Boccard: A Metabolomic Approach to Extend the Steroid Profile Monitoring For Doping Control Analysis
17:25-17:45	L 39 T.Kremmer: Hungarians in the Separation Sciences	L 42 A.Kilár: Structural Analysis of Endotoxins by Microchip and Mass Spectrometry	L 45 P.Boswell: HPLC Retention as an Ancillary Tool for Compound Identification: Easy and Accurate Cross-Platform Retention Prediction by Back-Calculation of Gradient and Flow Rate Profiles

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Wednesday, June 22, 2011			
	Retention mechanism	Biopharmaceuticals	Biomarkers
<i>Chair</i>	<i>Alberto Cavazzini</i>	<i>Douglas Westerlund</i>	<i>John Frenz</i>
9:00-9:30	KN 16 N.Tanaka: The Effect of Pressure on Solute Retention in Reversed-phase Liquid Chromatography	KN 17 A.Jungbauer: Purification and Characterisation of Large Biomolecular Assemblies by Monolithic Columns	KN 18 R.Bischoff: Biomarker Discovery for Multiple Sclerosis in Cerebrospinal Fluid by microfluidics-HPLC MS
9:30-9:50	L 46 B.Buszewski: Residual Silanols? The Old Problem and the New Facts in Chromatographic Elution	L 49 M.Trusch: Analysis of Proteomes by 2D-LC-MS Applying Displacement Chromatography	L 52 D.Lubman: Glycoproteomic Markers of Glioblastoma Cancer Stem Cells
9:50-10:10	L 47 G.Desmet: Use of Computational Fluid Dynamics to Establish and Validate Novel B-term Diffusion Expressions for Packed Bed and Monolithic Columns	L 50 J.Plieskatt: Using LC Separation Techniques for Mass Balance and Characterization of Recombinant Protein Vaccine Candidates and Process Intermediates during Development and cGMP Manufacture	L 53 M.Novotny: Quantitative Glycan Profiling and Oligosaccharide Identification in Cancer Diagnostic and Prognostic Measurements
10:10-10:30	L 48 S.Bruns: Physical Reconstruction of Packed Beds and their Morphological Analysis	L 51 S.Grotefend: Application of various Modes of High Performance Liquid Chromatography for Protein Analysis	L 54 M.Giera: Novel Derivatization Strategies for the LC-MS based Determination of Biomarkers and Cellular Metabolites
10:30-11:00	Coffee Break/Exhibition		
	Fundamental aspects of separations: Honouring Georges Guiochon	Ion chromatography, ionic liquids	HPLC-MS
<i>Chair</i>	<i>Stephen Jacobson</i>	<i>Nobuo Tanaka</i>	<i>Christian Huber</i>
11:00-11:30	KN 19 F.Farre Rius/A.Felinger: Introduction	KN 20 P.Haddad: Recent Advances in Ion Chromatography	KN 21 G.Hopfgartner: High Resolution Liquid Chromatography and Fast Acquisition Mass Spectrometry for Simultaneous Qualitative and Quantitative Analysis
11:30-11:50	L 55 F.Dondi: Different Approaches to Complexity in Stochastic Theory of Chromatography	L 58 P.Hajós: Integrated Chemical Systems for High Performance Ion Chromatography Using Chelating, Macrocyclic and Dipolar Ligands	L 61 C.Klampfl: High Performance Liquid Chromatography Coupled to Direct Analysis in Real Time Mass Spectrometry: A New Hyphenated Method
11:50-12:10	L 56 M.Martin: Renewal of an Old Method: Taylor Dispersion Analysis for Size Characterization of Nanomaterials	L 59 M.C.García-Álvarez-Coque: Silanol Suppression Potency of Alkyl-Imidazolium Ionic Liquids on C18 Stationary Phases	L 62 V.Kertész: Liquid Microjunction and Laser Ablation/Liquid Phase Collection Surface Sampling Coupled with HPLC/Electrospray Ionization-Mass Spectrometry for Analysis of Drugs and Metabolites in Whole-Body Thin Tissue Sections
12:10-12:30	L 57 K.Miyabe: Moment Equations for Chromatography Using Superficially Porous Spherical Particles	L 60 G.Dicinoski: Novel Chromatographic Systems to Prevent Acts of Terrorism	L 63 Zs.Darula: Method Development for the Selective Isolation of Secreted O-glycopeptides
12:30-13:30	Lunch		
13:30-14:30	Vendor Seminars (minimum 3 parallel seminars)		
13:30-15:30	Poster Session/Exhibition/Coffee break		

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Wednesday, June 22, 2011 continued			
<i>Chair</i>	Francesco Dondi	Fabrice Gritti	Imre Klebovich
15:30-16:15	T 07 M.Schure: Characterizing Chromatograms by Dimensionality	T 08 P.Sandra: Supercritical Fluid Chromatography: Past, Present and Future	T 09 E.Tyihák: Overpressured-Layer Chromatography (OPLC): From the Pressurized Ultramicro Chamber to BioArena System
	Fundamental aspects of separations: Honouring Georges Guiochon	Industrial separations	Multidimensional and planar chromatography
<i>Chair</i>	Pavel Jandera	Ziad El Rassi	Teresa Kowalska
16:15-16:45	KN 22 U.Tallarek: Reconstruction and statistical analysis of chromatographic media: From metric properties to structural descriptors of diffusion and dispersion	KN 23 L.Miller: Evaluation of Flash SFC for Pharmaceutical Medicinal Chemistry Purifications	KN 24 P.Dugo: New developments in the use of comprehensive LC for the analysis of natural products
16:45-17:05	L 64 T.Fornstedt: Visualization of Chromatographic Surprises - The Helfferich Paradox Revisited	L 66 L.Taylor: Ion Pair Supercritical Fluid Chromatography of Isomeric Protected and Unprotected Polypeptide Pairs	L 68 M.Trudgett: Theory and Modelling of a New Analytical Technique: Comprehensive Online Multidimensional Fast Fourier Transform Separations
17:05-17:25	L 65 A.Cavazzini: Reaction chromatography: design and characterization of new stationary phases for flow-chemistry applications	L 67 A.Berthod: A Powerful Preparative Technique: Modern Countercurrent Chromatography	L 69 M. Linford: Silica Based Thin-layer Chromatography Plates Templated through Carbon Nanotubes
18:00	Symposium Dinner		
Thursday, June 23, 2011			
	Advances in separation technology	Chiral separations	Proteomics
<i>Chair</i>	Edward S Yeung	Danilo Corradini	Gérard Hopfgartner
9:00-9:30	KN 25 E.Hilder: Novel Monolithic Cryopolymers for Efficient Capillary Chromatography of Biomolecules	KN 26 B.Chankvetadze: New Insights on Separation Mechanism of Enantiomers in Aqueous and Non-aqueous Capillary Electrophoresis	KN 27 C.Huber: High-Efficiency HPLC - High-Resolution Orbitrap-MS for Top-Down Analysis of Intact Proteins
9:30-9:50	L 70 J.Griffith: Two-dimensional LC-MS/MS of complex peptide samples: The utility of Porous Graphitic Carbon as the first dimension stationary phase	L 73 N.Grinberg: Mechanism of Enantioseparation on Macrocyclic Antibiotic Phases	L 76 L.Prókai: Enrichment-Enabled "Bottom-Up" Exploration of the Nitroproteome by Liquid Chromatography-Tandem Mass Spectrometry
9:50-10:10	L 71 E.Uliyanchenko: Fast and Efficient Comprehensive Two-dimensional UHPLC for Separations of Polymers	L 74 K.Hamase: Simultaneous Enantioselective Analysis of All Proteinogenic Amino Acids in Mice Lacking Enzymes Metabolizing D-amino Acids	L 77 M.Himmelsbach: Multidimensional Lipid Analysis using Novel Workflows based on High Resolution Mass Spectrometry or High Chromatographic Peak Capacity

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10:10-10:30	L 72 K.Choikhet: Volume Based HPLC - A Paradigm Change in Liquid Chromatography	L 75 P.Franco: Novel immobilised polysaccharide-derived chiral stationary phases to enhance success rate in the resolution of enantiomers	L 78 R.Murphy: Analytical Variability Reduction in Complex Sample Analysis using One and Two Dimensional Liquid Chromatography Mass Spectrometry
10:30-11:00	Coffee Break/Exhibition		
	Multidimensional Separations	Stationary phases	Detection in microfluidics
<i>Chair</i>	Pat Sandra	Frantisek Svec	Nelu Grinberg
11:00-11:30	KN 28 P.Jandera: Optimization of Selectivity, Peak Capacity and Separation Time in Two-Dimensional HPLC by Matching Separation Systems and Adjusting Gradient Conditions in the Two Dimensions	KN 29 R.Shalliker: Understanding Column Bed Heterogeneity in the Quest for Improved Separation Efficiency	KN 30 F.Foret: On-column Surface-Enhanced Raman Spectrometry Detection in Capillary Separations
11:30-11:50	L 79 S.Cohen: Using Multidimensional LC for Solving Difficult Separation Problems in the Life Sciences and Pharmaceutical Analysis	L 82 J.Urban: Second Generation of Porous Polymer Monoliths: From High Surface Area to Endless Number of Applications	L 85 M.Macka: Microfluidic Electrophoresis with LIF and LED Fluorescence Detection for Biomedical Diagnostics and On-Site Analysis: How Flexible Can a Fixed-Design Chip-CE System Be?
11:50-12:10	L 80 M.Verstraeten: Novel Thermal Modulation for Multi-dimensional Liquid Chromatography Separations using Low-Thermal-Mass LC	L 83 M.Enmark: A Deeper Understanding of a Complex Adsorption Behavior in a Common Chiral, Separation System	L 86 R.Beyreiss: Native Time-Resolved Fluorescence Detection - a Powerful Tool in Chip-based Total Analysis Systems
12:10-12:30	L 81 K.Horváth: Sample Dilution and Eluent Compatibility in Two-Dimensional Liquid Chromatography	L 84 K.Cabrera: About the Performance of 2nd Generation Monolithic HPLC Columns	L 87 J.Op de Beeck: Advancements in the HDC Separation of Nanoparticles in Ordered Micro-pillar Array Columns
12:30-13:30	Lunch		
13:30-14:30	Vendor Seminars (minimum 3 parallel seminars)		
13:30-15:00	Poster Session/Exhibition		
<i>Chair</i>	Wolfgang Lindner		
15:00-15:30	PL 6 P.Schoenmakers: High-performance Separations of Macromolecules		
15:30-16:00	PL 7 F.Svec: Imaging flow and Chromatographic Separation in Monolithic Capillaries using Remote NMR Detection		
16:00-16:30	PL 8 G.Xu: LC-MS Based Metabolomics for Disease Biomarker Discovery and Confirmation		
16:30-17:00	Closing Ceremony		