Sunday, 06. October 2024

| Short Course 09:30 - 15:30 | R8 |
|--|---------------|
| SC1 - Introduction to practical supercritical fluid chromatography | 10 |
| Instructor: Caroline West (University of Orleans, France) Instructor: Davy Guillarme (University of Geneva, Switzerland) Instructor: Isabelle François (Chromisa Scientific, France) | |
| Short Course 09:30 - 15:30 | R9 |
| SC3 - Introduction to multi-dimensional chromatography | |
| <i>Instructor</i> : Bob Pirok (Van 't Hoff Institute for Molecular Sciences, University of Amsterdam, Netherlan <i>Instructor</i> : Peter Schoenmakers (University of Amsterdam, Netherlands) | ds) |
| Short Course 09:30 - 15:30 | R10 |
| SC2 - Towards a better understanding of performing good practical reversed phase HPLC | |
| Instructor: Melvin Euerby (University of Strathclyde, United Kingdom) | |
| Plenary 17:00 - 17:30 | 1A |
| P-OC - Opening Ceremony | |
| Chair: Tony Edge (ISC 2024, United Kingdom) | |
| Plenary 17:30 - 18:15 | 1A |
| <i>P-1</i> - Navigating the Evolving Therapeutic Landscape with Advanced Analytical Technologies | |
| <i>Chair</i> : Tony Edge (ISC 2024, United Kingdom) <i>Speaker</i> : Kelly Zhang (Genentech, United States) | |
| Navigating the Evolving Therapeutic Landscape with Advanced Analytical Technologies | 17:30 - 18:15 |
| Presenter: Kelly Zhang (Genentech, United States) | |
| Plenary 18:15 - 19:00 | 1A |
| <i>P-2</i> - Very fast capillary GC for mobile measurement applications | 111 |
| Chair: Adrian Clarke (Novartis, Switzerland) Speaker: Alastair Lewis (University of York, United Kingdom) | |
| Very fast capillary GC for mobile measurement applications | 18:15 - 19:00 |
| Presenter: Alastair Lewis (University of York, United Kingdom) | |
| Awards | |
| 19:00 - 19:30 | 1A |
| A-1 - Awards Chair Daniel Meeten (Custanus Adelphus College United States) | |
| <i>Chair</i> : Daniel Meston (Gustavus Adolphus College, United States) <i>Chair</i> : Didier Thiébaut (ESPCI Paris - PSL, France) | |
| Social Event | - |
| 19:30 - 21:00 | 2 |
| Welcome Reception | |

Monday, 07. October 2024

| <i>Oral</i> 08:30 - 10:20 | | 1A |
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| 0.1 - Fundamenta | lls 1 | |
| | SC 2024, United Kingdom) :i (Waters Corporation, United States) | |
| | Optimizing liquid chromatography through fluid dynamics simulations | 08:30 - 09:00 |
| Presenter: Gert Des | smet (Free University Brussels, Belgium) | |
| | Characterization of solute-solvent interactions for neutral and ionized compounds in liquid chromatography systems by means of Abraham's solvation parameter model | 09:00 - 09:20 |
| Presenter: Xavier S | ubirats (University of Barcelona, Spain) | |
| | Overcoming the modulation challenges in two-dimensional liquid chromatography | 09:20 - 09:40 |
| Presenter: Rick S v | an den Hurk (University of Amsterdam, Netherlands) | |
| | Development of global machine learning models for understanding retention mechanism and predicting retention time in supercritical fluid chromatography/mass spectrometry | 09:40 - 10:00 |
| <i>Presenter</i> : Omidrez Kyushu University, | a Heravizadeh (Department of Systems Life Sciences, Graduate School of System Japan) | ns Life Sciences, |
| | Insights into the solute-adsorbent interactions in HILIC | 10:00 - 10:20 |
| Presenter: Alla Che | rnobrovkina (Lomonosov Moscow State University, Russian Federation) | |
| | | |
| | | |
| <i>Oral</i> 08:30 - 10:20 | | 1B |
| | tal | 1B |
| 08:30 - 10:20 0.2 - Environmen | tal (Imperial College London, United Kingdom) | 18 |
| 08:30 - 10:20 0.2 - Environmen | | 1B 08:30 - 09:00 |
| 08:30 - 10:20 0.2 - Environmen <i>Chair</i> : Leon Barron | (Imperial College London, United Kingdom) | |
| 08:30 - 10:20 0.2 - Environmen <i>Chair</i> : Leon Barron | (Imperial College London, United Kingdom) The art of separating biosurfactants produced by Bacillus humi Mosely (University of York, United Kingdom) Analysis of (micro-)plastic-associated chemicals released into marine environments by comprehensive multidimensional gas | |
| 08:30 - 10:20 0.2 - Environmen <i>Chair</i> : Leon Barron <i>Presenter</i> : Jackie A | (Imperial College London, United Kingdom) The art of separating biosurfactants produced by Bacillus humi Mosely (University of York, United Kingdom) Analysis of (micro-)plastic-associated chemicals released into | 08:30 - 09:00 |
| 08:30 - 10:20 0.2 - Environmen <i>Chair</i> : Leon Barron <i>Presenter</i> : Jackie A | (Imperial College London, United Kingdom) The art of separating biosurfactants produced by Bacillus humi Mosely (University of York, United Kingdom) Analysis of (micro-)plastic-associated chemicals released into marine environments by comprehensive multidimensional gas chromatography-mass spectrometry | 08:30 - 09:00 |
| 08:30 - 10:20 O.2 - Environmen <i>Chair</i> : Leon Barron <i>Presenter</i> : Jackie A <i>Presenter</i> : Lucy Ho | (Imperial College London, United Kingdom) The art of separating biosurfactants produced by Bacillus humi Mosely (University of York, United Kingdom) Analysis of (micro-)plastic-associated chemicals released into marine environments by comprehensive multidimensional gas chromatography-mass spectrometry warth-Forster (University of Plymouth, United Kingdom) Separation, detection and speciation of five chelating agents in complex radioactive effluents with high-resolution Orbitrap mass | 08:30 - 09:00 09:00 - 09:20 |
| 08:30 - 10:20 O.2 - Environmen <i>Chair</i> : Leon Barron <i>Presenter</i> : Jackie A <i>Presenter</i> : Lucy Ho | (Imperial College London, United Kingdom) The art of separating biosurfactants produced by Bacillus humi Mosely (University of York, United Kingdom) Analysis of (micro-)plastic-associated chemicals released into marine environments by comprehensive multidimensional gas chromatography-mass spectrometry warth-Forster (University of Plymouth, United Kingdom) Separation, detection and speciation of five chelating agents in complex radioactive effluents with high-resolution Orbitrap mass spectrometry | 08:30 - 09:00 09:00 - 09:20 |
| 08:30 - 10:20 O.2 - Environmen Chair: Leon Barron Presenter: Jackie A Presenter: Lucy Ho Presenter: Romain | (Imperial College London, United Kingdom) The art of separating biosurfactants produced by Bacillus humi Mosely (University of York, United Kingdom) Analysis of (micro-)plastic-associated chemicals released into marine environments by comprehensive multidimensional gas chromatography-mass spectrometry warth-Forster (University of Plymouth, United Kingdom) Separation, detection and speciation of five chelating agents in complex radioactive effluents with high-resolution Orbitrap mass spectrometry Klein (Université Paris Saclay, CEA, France) Molecularly imprinting-based solid phase extraction for the extraction of target steroid hormones and their transformation | 08:30 - 09:00 09:00 - 09:20 09:20 - 09:40 |
| 08:30 - 10:20 O.2 - Environmen Chair: Leon Barron Presenter: Jackie A Presenter: Lucy Ho Presenter: Romain Presenter: Rayco G | (Imperial College London, United Kingdom) The art of separating biosurfactants produced by Bacillus humi Mosely (University of York, United Kingdom) Analysis of (micro-)plastic-associated chemicals released into marine environments by comprehensive multidimensional gas chromatography-mass spectrometry warth-Forster (University of Plymouth, United Kingdom) Separation, detection and speciation of five chelating agents in complex radioactive effluents with high-resolution Orbitrap mass spectrometry Klein (Université Paris Saclay, CEA, France) Molecularly imprinting-based solid phase extraction for the extraction of target steroid hormones and their transformation products present in wastewater samples | 08:30 - 09:00 09:00 - 09:20 09:20 - 09:40 |

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| <i>Oral</i> 08:30 - 10:20 | | 1C |
| 0.3 - Omics | | |
| CZOCHRALSKIEG | | E IM. PROF. JANA |
| Chair: John Langle | y (University of Southampton, United Kingdom) | |
| | Liquid and Supercritical Chromatography Coupled to Multimodal Tandem Mass Spectrometry in Metabolomics | 08:30 - 09:00 |
| Presenter: Gérard | Hopfgartner (University of Geneva, Switzerland) | |
| | Mitigating artifact formation in high-temperature LC-MS for bottom-up proteomics and quality control of protein biopharmaceuticals | 09:00 - 09:20 |
| Presenter: Juraj Le | nčo (Charles University, Faculty of Pharmacy, Czech Republic) | |
| Presenter: Steven I | PLOT, Pillars and Particles: Exploring column formats for omics Ray Wilson (University of Oslo, Norway) | 09:20 - 09:40 |
| Presenter: Ilias El (| Optimized UHPSFC-HRMS/MS workflow for molecular networking to explore the specialized metabolism of Trichoderma reesei Ouar (IFPEN, France) | 09:40 - 10:00 |
| | Analyte identification in untargeted analysis. Chromatography | 10:00 - 10:20 |
| | matters. | |
| Presenter: Georgio | s Theodoridis (Aristotle University of Thessaloniki, Greece) | |
| <i>Refreshments & Ex</i> 10:20 - 11:00 | hibition | 2 |
| Refreshments & l | Exhibition | |
| | | |
| <i>Oral</i> 11:00 - 12:30 | | 1A |
| 0.4 - Chromatogr | raphic Modelling | |
| Chair: Gert Desme | t (Free University Brussels, Belgium) | |
| | Refinements of the Hydrophobic Subtraction Model and applications to the characterisation of modern HPLC stationary phases | 11:00 - 11:30 |
| Invited Speaker: Jo | sep Serret (Element Materials Technology, United Kingdom) | |
| | Development of a CEX platform method for monoclonal antibodies following ICHQ14 and DoE | 11:30 - 11:50 |
| Presenter: Georg H | Iölzl (Novartis Manufacturing GmbH, Austria) | |
| | Exploring the utility of complementary incomplete separations in liquid chromatography | 11:50 - 12:10 |
| Presenter: Leon Ev | voud Niezen (Vrije Universiteit Brussel, Belgium) | |
| | Unlocking Objective Numerical Evaluation of Data Analysis Strategies: A Novel Platform to Generate Highly Realistic LC×LC and GC×GC Data | 12:10 - 12:30 |
| Presenter: Nino Mi | lani (University of Amsterdam, Netherlands) | |
| | | |
| <i>Oral</i> 11:00 - 12:30 | | 1B |
| 0.5 - Chirality | | |
| Chair: John Lough | (United Kingdom) on (Gustavus Adolphus College, United States) | |
| | Chiral stationary phases for isomer separations in bioanalytical and | 11:00 - 11:30 |
| | biopharmaceutical applications | 11.00 - 11.00 |
| | Laemmerhofer (University of Tuebingen, Institute of Pharmaceutical Sciences, | |

Presenter: Michael Laemmerhofer (University of Tuebingen, Institute of Pharmaceutical Sciences, Germany)

| Presenter: Simona | Unconventional van Deemter curves in chiral chromatography Felletti (University of Ferrara, Italy) | 11:30 - 11:50 |
|---|--|----------------|
| | Exploiting the inherent chirality of cellulose: HPLC for enantiomeric separation on non-conventional cellulose derivatives as chiral stationary phases | 11:50 - 12:10 |
| Presenter: Anna Flo | orentina Lehrhofer (University of Natural Resources and Life Sciences, Vienna (Be | OKU), Austria) |
| | Flavanone diastereomeric excesses in bitter orange (Citrus aurantium L.) measured with SFC-SFC-MS in multiple heart-cutting mode | 12:10 - 12:30 |
| Presenter: Laurine | Réset (Institut de Chimie Organique et Analytique, Université d'Orleans, France) | |
| | | |
| Oral | | 10 |
| 11:00 - 12:30 0.6 - Purification | | 1C |
| Chair: Tony Taylor | (Element Material Technologies, United Kingdom) on (Astra Zeneca, United Kingdom) | |
| | Vacuum-Assisted Headspace Microextraction: Fostering Innovation | 11:00 - 11:30 |
| Presenter: Elia Psil | lakis (Technical University of Crete, Greece) | |
| | Multicolumn countercurrent chromatography combined with ethanol for the green purification of Crocin-I extracted from saffron | 11:30 - 11:50 |
| Presenter: Chiara I | De Luca (University of Ferrara, Italy) | |
| | Improvement in downstream purification process efficiency by removing bottleneck unit operations | 11:50 - 12:10 |
| Presenter: Alistair | Hurst (emp Biotech GmbH, Germany) | |
| | The strength of peak recycling in sustainable and challenging purification of natural compounds | 12:10 - 12:30 |
| Presenter: Yannick | Krauke (KNAUER Wissenschaftliche Geräte GmbH, Germany) | |
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| <i>Refreshments & Ex</i> 12:30 - 13:30 | hibition | 2 |
| Lunch & Exhibition | on | |
| | | |
| <i>Tutorial</i> 13:00 - 14:00 | | 1B |
| | een' into your Chromatographic Methods | |
| | rguson (Astra Zeneca, United Kingdom) | |
| <i>Instructor</i> : Diane T | urner (United Kingdom) | |
| Vendor Seminar 13:00 - 14:00 | | 3A |
| | ts Sensation: Unveiling the Chemistry of G & T (Shimadzu) | |
| | | |
| <i>Poster</i> 13:30 - 15:00 | | 2 |
| P1 - Posters 1 | | |
| Board 1 | Enhancement in ASAPrep $^{\mbox{\scriptsize TM}}$ for analytical to preparative scale-up in SFC | 13:30 - 13:30 |
| Presenter: Richard | Hodgson (Shimadzu UK Ltd, United Kingdom) | |
| Board 4 | Automatic optimization of gradient profile using AI algorithms on functional food analysis with HPLC | 13:30 - 13:30 |
| Presenter: Yoshiyul | ki Watabe (Shimadzu General Service, Japan) | |

Presenter: Yoshiyuki Watabe (Shimadzu General Service, Japan)

| Board 7 | Just add some valves - Increased sample loading capacity for online SPE-HPLC | 13:30 - 13:30 |
|----------------------|--|---------------|
| Presenter: Mareike | Prüfer (KNAUER Wissenschaftliche Geräte GmbH, Germany) | |
| Board 10 | Fully-automated and Derivatization-free GC-MS Analysis of SCFAs in Human Biospecimen | 13:30 - 13:30 |
| Presenter: Hana Sel | ičová (Masaryk University, Czech Republic) | |
| Board 13 | Boost productivity with intelligent strategies for routine data analysis, processing and reporting for HPLC-UV and HPLC-UV-MS workflows | 13:30 - 13:30 |
| Presenter: Sylvia Gr | osse (Thermo Fisher Scientific, Germany) | |
| Board 16 | Overcoming challenges of high-volume chromatography utilising YOLO machine learning model | 13:30 - 13:30 |
| Presenter: Jonathan | Scott (Sygnature Discovery Ltd, United Kingdom) | |
| Board 19 | Online Mixed-Mode SPE for Quantitative LC-MS/MS analysis of a N- Nitrosamine Drug Substance-Related Impurity in an Allergy Relief Drug Product | 13:30 - 13:30 |
| Presenter: Matthew | Knox (Resolian, United Kingdom) | |
| Board 22 | Application of Green Analytical Method for analysis of residues of Chemical Contaminants using APGC-MS/MS with RTC PAL Solid Phase Micro-Extraction (SPME) Arrow | 13:30 - 13:30 |
| Presenter: Dnyanesh | awar Shinde (RASID LAB M42 Healthcare, United Arab Emirates) | |
| Board 25 | Application of the AQbD approach for the development of HPLC method for Mixture of Hair Dyes | 13:30 - 13:30 |
| Presenter: Arturs Ka | limulins (Institute of Chromatography, Latvia) | |
| Board 28 | Vacuum In-Tube Extraction (V-ITEX) - a new, efficient, automated extraction technique and its application to a range of sample matrices | 13:30 - 13:30 |
| Presenter: Andrew V | Vard (JSB UK & Ireland, United Kingdom) | |
| Board 31 | Trace Analysis of PFAS in Soils using Automated Sample Preparation | 13:30 - 13:30 |
| Presenter: Cassandr | a Rusher (ePrep Europe Ltd., United Kingdom) | |
| Board 34 | Comparison of critical quality attributes of therapeutic monoclonal antibodies from the NISTCHO cell line under varying critical process parameters | 13:30 - 13:30 |
| Presenter: Thomas I | Berger (Paris-Lodron-University of Salzburg, Austria) | |
| Board 37 | Impact of High-Performance Liquid Chromatography System Characteristics on Non- Specific Adsorption of Biomolecules | 13:30 - 13:30 |
| Presenter: Paula Ho | ng (Waters Corporation, United States) | |
| Board 40 | Analytical Strategy for Evaluation of Enzymatic Activity in the Synthesis of a Pharmaceutical Intermediate | 13:30 - 13:30 |
| Presenter: Penny Pe | rlepe (Bristol Myers Squibb Company, United Kingdom) | |
| Board 43 | Development of a robust cation exchange chromatography method for charge variant analysis | 13:30 - 13:30 |
| Presenter: Sylvia Gr | osse (Thermo Fisher Scientific, Germany) | |
| Board 46 | Determination of aminoketone impurity in starting material by SFC and IR | 13:30 - 13:30 |
| Presenter: Els Keppe | ens (Johnson&Johnson Innovative Medicine, Belgium) | |
| Board 49 | Product Profiling of Monoclonal Antibodies by Ion-exchange Chromatography with Online Desalting using Reversed-phase Traps and Fractionation Collector | 13:30 - 13:30 |

Presenter: Annika van der Zon (University of Amsterdam, Netherlands)

| Board 52 | Charge Variant Separation and Characterization of Various Antibodies Using CZE-MS, cIEF-MS, and IEX-MS on Intact and Subunit Level | 13:30 - 13:30 |
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| Presenter: Jasmin So | chairer (Aalen University, Germany) | |
| Board 55 | µLC-SWATH-MS for verification of covalent kinase inhibitor binding to target tyrosine kinases | 13:30 - 13:30 |
| Presenter: Benedikt | Masberg (Eberhard Karls University Tübingen, Germany) | |
| Board 58 | Anion exchange HPLC monitoring of mRNA in vitro transcription reactions to support mRNA manufacturing process development | 13:30 - 13:30 |
| <i>Presenter</i> : Emma N. | Welbourne (University of Sheffield, United Kingdom) | |
| Board 61 | Multidimensional LC-MS for biologics characterization: From simple heart cutting to versatile workflow automation | 13:30 - 13:30 |
| Presenter: Alexande | r Schwahn (Thermo Fisher Scientific, Switzerland) | |
| Board 64 | Confident Material Selection in HPLC and UHPLC Instrumentation | 13:30 - 13:30 |
| Presenter: Katherine | e Lovejoy (Thermo Fisher Scientific, Germany) | |
| Board 67 | Quantitative analsysis method for isoorientin and baicalin from Phyllostachys edulis and Scutellaria baicalensis extract | 13:30 - 13:30 |
| Presenter: Eunjung | Son (Korea Institute of Oriental Medicine, Korea, Republic of) | |
| Board 70 | Preparation of Magnetic Nanoparticle-Immobilized Enzyme Reactor and Its Application in Characterization and Sequence Mapping of mRNA using LC-MS | 13:30 - 13:30 |
| <i>Presenter</i> : Yachao H | lao (University of Tuebingen, Germany) | |
| Board 73 | Development of a ppm level analytical method for the determination of N-methylpropylamine in a pharmaceutical API by HS-GCMS | 13:30 - 13:30 |
| Presenter: Adrian D | oggett (Bristol Myers Squibb, United Kingdom) | |
| Board 76 | Adeno-Associated Virus and Virus-Like Particles Analysis by Newly Developed Size Exclusion Chromatography Columns | 13:30 - 13:30 |
| Presenter: John Dav | ies (Agilent Technologies, United Kingdom) | |
| Board 79 | A novel approach for multiple CQAs monitoring of mAbs from bioreactors using 2D-LC-MS | 13:30 - 13:30 |
| <i>Presenter</i> : Maria Gr | übner (Thermo Fisher Scientific, Germany) | |
| Board 82 | Achieving High Recovery & Reproducibility in High Throughput Sample Preparation Using Silica/Polymer Composite 96-Well SPE Plates | 13:30 - 13:30 |
| Presenter: David Du | nthorne (Avantor, United Kingdom) | |
| Board 85 | Multi-column two-dimensional liquid chromatography screening platform for stereo-peptidomics and application to an antimicrobial peptide polyene | 13:30 - 13:30 |
| Presenter: Cornelius | s Knappe (University of Tuebingen, Germany) | |
| Board 88 | Implementation of 3D printed integrated clarification and capture columns for antibodies purifications | 13:30 - 13:30 |
| <i>Presenter</i> : Simone D | imartino (The University of Edinburgh, United Kingdom) | |
| Board 91 | Anion-exchange chromatography separation of AAV empty and full capsids using non-toxic choline-type salts | 13:30 - 13:30 |
| Presenter: Werner (| Conze (Tosoh Bioscience GmbH, Germany) | |
| Board 94 | Bioanalytical LC-MS/MS Method for the Analysis of Abemaciclib, Neratinib, Capecitabine, Alpelisip, Tamoxifen, and Fulvestrant | 13:30 - 13:30 |
| Presenter: Yahya M. | Alshehri (Saudi Food and Drug Authority, Saudi Arabia) | |
| Board 97 | Robust, Rapid SEC-MALS Titer Analysis of AAV Particles Using 3µm, 550Å Monodisperse SEC Media in Bioinert Column Hardware | 13:30 - 13:30 |

| Presenter: Michael | Oliver (Thermo Fisher Scientific, United Kingdom) | |
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| Board 100 | Effect of Analytical Conditions on Oligonucleotide Adsorption in Ion-Pairing Reversed Phase and Ion Exchange Chromatography | 13:30 - 13:30 |
| Presenter: Daniel H | Esser (YMC Europe GmbH, Germany) | |
| Board 103 | Analysis of adeno-associated virus using reversed-phase chromatography techniques | 13:30 - 13:30 |
| Presenter: Matthew | v Quinn (Avantor, United Kingdom) | |
| Board 106 | Chiral Screening and Optimisation using Supercritical Fluid Chromatography and Design of Experiments | 13:30 - 13:30 |
| Presenter: Matthew | w Knox (Resolian, United Kingdom) | |
| Board 109 | Methanesulfonic Acid in Chiral SFC: The Quest for Perfect Peaks and the Trials of Resolution | 13:30 - 13:30 |
| Presenter: Astrid B | uica (AstraZeneca AB, Sweden) | |
| Board 112 | Green solvents for enantioselective liquid chromatography of liquid crystalline materials | 13:30 - 13:30 |
| Presenter: Petra Va | aňkátová (Institute of Physics of the Czech Academy of Sciences, Czech Republic) | |
| Board 115 | High-performance liquid chromatographic separation and absolute configuration assignment of iminoflavans on chiral polysaccharide stationary phases | 13:30 - 13:30 |
| <i>Presenter</i> : Mohamo Algeria) | ed Nadjib Rebizi (University of Ziane Achour/Faculty of Exact Sciences and Compu | ter Science, |
| Board 118 | Advancements in Analytical Strategies for Oxylipin Characterization: Automated derivatization, Chiral Separation, and Isotopic Labeling | 13:30 - 13:30 |
| Presenter: Zijing X | u (University of Tuebingen, Germany) | |
| Board 121 <i>Presenter</i> : Raymon | Amplify chiral resolution using a column leap-frogging SFC system d Wong (Shimadzu, United Kingdom) | 13:30 - 13:30 |
| Board 124 <i>Presenter</i> : Anita Pr | Supercritical Fluid Chromatography for Chiral Analysis and Preparative Purification rechl (Gedeon Richter Plc, Hungary) | 13:30 - 13:30 |
| Board 127 | Evaluation of Chromatographic Modelling Software to Streamline GC and LC Method Development | 13:30 - 13:30 |
| Presenter: John Ga | llant (Restek Corporation, United States) | |
| Board 130 | Chromatographic Method Evaluation & Optimisation for Fixed-Dose Combination (FDC) Formulation Compatibility Study | 13:30 - 13:30 |
| Presenter: Sara Ry | an (AstraZeneca, United Kingdom) | |
| Board 133 | Modeling Software for Retention Prediction in Gradient Reverse Phase Liquid Chromatography (RPLC) - A Diagnostic Tool | 13:30 - 13:30 |
| | Brown (Advanced Chemistry Development UK Ltd., United Kingdom) | |
| Board 136 | Utilising Digital Tools to Automate UPLC Method Development in Pharmaceuticals | 13:30 - 13:30 |
| | on Gibson (AstraZeneca, United Kingdom) | |
| Board 139 | Theoretical and practical guidelines for solvent dilution between the two dimensions in online comprehensive two-dimensional liquid chromatography | 13:30 - 13:30 |
| <i>Presenter</i> : Megane Geneva, Switzerlar | Aebischer (Institute of Pharmaceutical Sciences of Western Switzerland (ISPSO)- | University of |
| Board 142 | A perspective on leveraging reinforcement learning to aid method development in liquid chromatography | 13:30 - 13:30 |
| Presenter: Leon Ev | voud Niezen (Vrije Universiteit Brussel, Belgium) | |
| Board 145 | Determination of Sodium benzoate, Potassium sorbate, and | 13:30 - 13:30 |

| | Methylparaben in Herbal cough syrups by HPLC-UV | |
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| Presenter: Thamer | S. Alghamdi (Saudi Food and Drug Authority (SFDA), Saudi Arabia) | |
| Board 148 | Integration of in-silico modelling into a targeted HPLC method development workflow | 13:30 - 13:30 |
| Presenter: Shreya I | Bondili (Pharmaron UK, United Kingdom) | |
| Board 151A <i>Presenter</i> : Amanda | The role of modeling in ICH Q14 Guiraldelli (University of Campinas, Brazil) | 13:30 - 13:30 |
| Board 151B | Enhanced Robustness Assessment for MODR Design: Development of a Stability-Indicating UHPLC-UV Procedure for for Quantifying Ondansetron-Related Compounds Using AQbD Principles | 13:30 - 13:30 |
| Presenter: Amanda | Guiraldelli (University of Campinas, Brazil) | |
| Board 154 | Modelling of small molecule binding to phospholipids using IAM- HPLC and QSRR approaches enhanced by machine learning algorithms. | 13:30 - 13:30 |
| Presenter: Krzesim | ir Ciura (Medical University of Gdańsk, Poland) | |
| Board 157 Presenter: Ian Bart | Advanced Scoring Procedures in Separation Screening Methods on (Mestrelab Research S.L., Spain) | 13:30 - 13:30 |
| Board 160 | Advancing complex sample analysis with global retention models in | 13:30 - 13:30 |
| board 100 | RPLC: transferability across different plant species | 13:30 - 13:30 |
| Presenter: Pau Peir | ró (University of Valencia, Spain) | |
| Board 163 | A comparison between HS-SPME, DI-SPME, and liquid injection on GC-MS for the analysis of oxygenated and nitrated polycyclic aromatic hydrocarbons in urine of smokers | 13:30 - 13:30 |
| Presenter: Atallah I | Elzein (UK Health Security Agency, United Kingdom) | |
| Board 166 | New type of derivatization agents for LC/MS analysis of amino acids | 13:30 - 13:30 |
| <i>Presenter</i> : Tereza I | Hofmanová (University of Hradec Králové, Czech Republic) | |
| Board 169 | Dispersive liquid-liquid microextraction vs. phospholipid removal sample preparation for LC-MS: method cross-validation for clinical bioanalysis of selected breast cancer drugs | 13:30 - 13:30 |
| Presenter: Lu Turk | ović (University of Zagreb Faculty of Pharmacy and Biochemistry, Croatia) | |
| Board 172 | Development of UHPLC-DIA-HRMS method for O-glycans profiling in tear fluid | 13:30 - 13:30 |
| Presenter: Katerina | Plachka (Charles University, Faculty of Pharmacy, Czech Republic) | |
| Board 175 | Quantitation of Panel of Per- and Polyfluoroalkyl Substances (PFAS) in Biological Matrix | 13:30 - 13:30 |
| Presenter: Ed Gouc | cher (Thermo Fisher Scientific, United States) | |
| Board 178 | Development, validation and application of novel HILIC based HPLC-MS/MS methods for the measurement of Ribavirin in human plasma and dried blood spots | 13:30 - 13:30 |
| Presenter: Mark Bayliss (North Bristol NHS Trust, United Kingdom) | | |
| Board 181 | Paper-Arrow Mass-Spectrometry: A Seamless Integration of Modified Paper Chromatography with Paper Spray for Detection of Cortisol in Human Saliva | 13:30 - 13:30 |
| Presenter: Tung-Ti | ng Sham (University of Liverpool, United Kingdom) | |
| Board 184 | Enhanced Analysis of Coordination Compounds in Tryptophan Metabolism Using Bioinert-Coated Hardware in High-Performance Liquid Chromatography | 13:30 - 13:30 |
| Presenter: Daniel Esser (YMC Europe GmbH, Germany) | | |
| Board 187 | Development and Comparison of Reversed-Phase Liquid Chromatography, Hydrophilic Interaction Liquid Chromatography and Supercritical Fluid Chromatography for the Analysis of | 13:30 - 13:30 |

| | Regioisomeric Fluorofentanyl Derivatives | |
|--|---|---------------|
| Presenter: Melvin | Euerby (University of Strathclyde, United Kingdom) | |
| Board 190 | Enantiomeric Separation of Diphenidines by Polar Organic Chiral Liquid Chromatography on Polysaccharide-Based Stationary Phases | 13:30 - 13:30 |
| Presenter: Melvin | Euerby (University of Strathclyde, United Kingdom) | |
| Board 193 | Separation and Quantification of Novel Synthetic Fentanyls in Clinical Extracts by high pH reverse-phase LC-MS/MS | 13:30 - 13:30 |
| Presenter: Benjami | in Barrett (Shimadzu UK Ltd, United Kingdom) | |
| Board 196 | A pilot study using an untargeted approach to screen for drugs of abuse in multiple clinic sites in UK | 13:30 - 13:30 |
| Presenter: Jinkang | Zhang (UK Health Security Agency, United Kingdom) | |
| Board 199 | Real-World Applications of Automated Sample Preparation for Drug of Abuse Analysis in Biological Samples | 13:30 - 13:30 |
| Presenter: Colin H | astie (Element Lab Solutions, United Kingdom) | |
| Board 202 | Characterization of Reversed-Phase Liquid Chromatographic Columns Containing Anionic Exchange Functionality | 13:30 - 13:30 |
| Presenter: Patrik P | etersson (Ferring Pharmaceuticals, Denmark) | |
| Board 205 | Performance evaluation of a new reversed-phase C18 column for peptide mapping and monitoring of monoclonal antibodies | 13:30 - 13:30 |
| | e Fabel (Thermo Fisher Scientific, Germany) | |
| Board 208 | Development of Novel Inert HPLC Column Hardware to Reduce Impact of Non-specific Interactions | 13:30 - 13:30 |
| - | llant (Restek Corporation, United States) | |
| Board 211 | Towards the fabrication of polymeric monolithic columns for HILIC applications | 13:30 - 13:30 |
| | Icic (Technological University Dublin, Ireland) | |
| Board 214 | Adapting the surfaces of commercially available 3D printing resins for applications in separation science | 13:30 - 13:30 |
| | Currivan-Macdonald (Technological University Dublin, Ireland) | |
| Board 217 | SweetSep [™] AEX200 a New Stationary Phase for Fast and High- Resolution Separation of Carbohydrates using HPAEC-PAD Reeder (Verulam Scientific, United Kingdom) | 13:30 - 13:30 |
| | | 12.20 12.20 |
| Board 220 | Evaluation of Positively Charged Surface Stationary Phases for Improved Chromatographic Separations of Basic Analytes in Small Molecules and Peptides | 13:30 - 13:30 |
| Presenter: Harald | John Ritchie (Advanced Materials Technology, United States) | |
| Board 223 | Reaction Principles for in-Situ Functionalization of Ion Chromatography Columns | 13:30 - 13:30 |
| Presenter: Manuel | Stehrenberger (Zurich University of Applied Sciences, Switzerland) | |
| Board 226 <i>Presenter</i> : NORIKA | Evaluation of Bidentate Endcapping Silylation Reagents for HPLC AZU NAGAE (ChromaNik Technologies Inc., Japan) | 13:30 - 13:30 |
| Board 229 | Evaluation of retention behavior and stability of a novel trifunctional biphenyl phase | 13:30 - 13:30 |
| Presenter: NORIKA | AZU NAGAE (ChromaNik Technologies Inc., Japan) | |
| Board 232 | Novel end-capping method with silyl-reagent including ethylene chain | 13:30 - 13:30 |
| Presenter: Etsuko Shearer (BioNik Inc., Japan) | | |
| Board 235 | Non-suppressed Ion Chromatography on Hydrophilic Columns using Electrospray-MS Compatible Eluents | 13:30 - 13:30 |
| Presenter: Brett Pa | ull (University of Tasmania, Australia) | |

| Board 238 | Generic LC method development strategies: spin-off for effective cost efficient laboratory teaching | 13:30 - 13:30 |
|-------------------------------|---|---------------|
| Presenter: Salma | Isah Yarima (University of Sunderland, United Kingdom) | |
| Board 241 | Quantification of metal ion leaching in metal alloys used in HPLC instruments and columns and the impact it can have to separations | 13:30 - 13:30 |
| Presenter: David | Bell (ASKkprime LLC, United States) | |
| Board 243 | Enhancing Viral Purification with 3D Printed High-Resolution Chromatography Media | 13:30 - 13:30 |
| Presenter: Jingwe | n Lei (The University of Edinburgh, United Kingdom) | |
| | | |
| <i>Tutorial</i> 14:00 - 15:00 | | 1C |
| T2 - Harnessing | the power of Data Analytics: your analytical journey from complexity to cla | rity |
| Instructor: Camill | a Liscio (Element Lab Solutions, United Kingdom) | |
| Vendor Seminar | | |
| 14:00 - 15:00 | | 3A |
| | ational Women in Chromatography Community launch & Networking | |
| Chair: Diane Turr | ner (United Kingdom) | |
| Oral | | |
| 15:00 - 16:30 | | 1A |
| 0.7 - Novel inst | | |
| | nartino (The University of Edinburgh, United Kingdom) Reyhani (Imperial College London, United Kingdom) | |
| | Sustainable 2LabsToGo | 15:00 - 15:30 |
| Presenter: Gertru | d Morlock (Justus Liebig University Giessen, Germany) | |
| | Immobilized Artificial Membrane Liquid Chromatography vs Liposome Electrokinetic Chromatography: suitability in drug/bio membrane partitioning studies and effectiveness in the assessment of drugs' passage through the respiratory mucosa. | 15:30 - 15:50 |
| Presenter: Giacor | no Russo (Edinburgh Napier University, United Kingdom) | |
| Presenter: Fiona | Optimization and the use of 2-dimensional chromatography for on- line mRNA digestion and sequencing Anna-Maria Rupprecht (Thermo Fisher Scientific, Germany) | 15:50 - 16:10 |
| | | 10.10 10.00 |
| Presenter: Marga | Online LCxSFC: how to make a successful coupling? ux Sanchez (Institute of Analytical Sciences, France) | 16:10 - 16:30 |
| Oral | | |
| 15:00 - 16:30 | | 1B |
| O.8 - Forensics | | |
| 0 0 | (ISC 2024, United Kingdom) rs (University of Liverpool, United Kingdom) | |
| | Separating the guilty from the innocent - The use of chromatography in forensic science | 15:00 - 15:30 |
| Presenter: David | Thompson (Keele University, United Kingdom) | |
| | Applying the Green and Simple Moka-Pot Extraction to detect Performance Enhancing Drugs Via HPLC-MS/MS In Dietary Supplements. | 15:30 - 15:50 |
| Presenter: Matteo | b Baglietto (University of Genoa, Italy) | |
| | Evaluation of Supramolecular Deep Eutectic Solvents, Cyclodextrin- and Cyclofructan- based Chiral Selectors for the Enantioseparation of Novel Psychoactive Substances in CE and HPLC - The Potential | 15:50 - 16:10 |

| of the Use of Deep Eutectic Solvents and Amino Acid-Based Ionic | |
|--|---------------|
| Liquids as Additives | |
| Presenter: Constantina Kapnissi-Christodoulou (University of Cyprus, Cyprus) | |
| Characterisation of a seized illicit drug sample by high resolution liquid chromatography mass spectrometry | 16:10 - 16:30 |
| Presenter: Alan Barnes (Shimadzu Corporation, United Kingdom) | |
| | |
| <i>Oral</i> 15:00 - 16:30 | 1C |
| 0.9 - Petroleum, Plastics and Biopolymers - A Tribute to Keith Bartle | |
| <i>Chair</i> : Andrew Feilden (Bicycle Therapuetics, United Kingdom) <i>Chair</i> : Pernilla Sorme (My Green Lab, United Kingdom) | |
| New Fuels and New Challenges - Release the Hyphens! | 15:00 - 15:30 |
| Presenter: John Langley (University of Southampton, United Kingdom) | |
| Integrated analysis of plastic additives in medical devices with online SFE-SFC-MS | 15:30 - 15:50 |
| Presenter: Caroline West (University of Orleans, France) | |
| Aromatic-selective size exclusion chromatography (ASSEC): A swift solution for complex petroleum characterization | 15:50 - 16:10 |
| Presenter: Saroj Panda (Saudi Aramco, Saudi Arabia) | |
| Going big: HRMS-hyphenated separations unleash the analysis of complex proteoforms over 100 kDa | 16:10 - 16:30 |
| Presenter: Andrea Gargano (University of Amsterdam, Netherlands) | |
| | |
| Refreshments & Exhibition 16:30 - 17:30 | 2 |
| Refreshments & Exhibition | |
| | |
| Tube & Slam 17:30 - 18:30 | 1A |
| S1 - ISC Tube & Slam | |
| Chair: Simone Dimartino (The University of Edinburgh, United Kingdom) Chair: David Bell (ASKkprime LLC, United States) Chair: Petra Lewits (Merck KGaA, Germany) Speaker: Chiara De Luca (University of Ferrara, Italy) | |
| Speaker: Simona Felletti (University of Ferrara, Italy) Speaker: Greta Compagnin (University of Ferrara, Italy) Speaker: Yannick Krauke (KNAUER Wissenschaftliche Geräte GmbH, Germany) | |
| Speaker: Mareike Prüfer (KNAUER Wissenschaftliche Geräte GmbH, Germany) Speaker: Bram Huygens (Vrije Universiteit Brussel, Belgium) Speaker: Jelle Verdonck (KU Leuven, Belgium) | |
| The terms of the van Deemter equation | 17:30 - 17:35 |
| Presenter: Chiara De Luca (University of Ferrara, Italy) Presenter: Simona Felletti (University of Ferrara, Italy) Presenter: Greta Compagnin (University of Ferrara, Italy) | 11100 11100 |
| SMB Chromatography | 17:35 - 17:40 |
| Presenter: Yannick Krauke (KNAUER Wissenschaftliche Geräte GmbH, Germany) Presenter: Mareike Prüfer (KNAUER Wissenschaftliche Geräte GmbH, Germany) | |
| When I find my peaks in times of trouble, J. van Deemter comes to me, speaking words of wisdom, ABC | 17:40 - 17:45 |
| Presenter: Bram Huygens (Vrije Universiteit Brussel, Belgium) | |
| The magic of biomonitoring | 17:45 - 17:50 |
| | |

Presenter: Jelle Verdonck (KU Leuven, Belgium)

Awards 18:30 - 19:30

A-2a - Rising Stars of Separation Science Presentations (LCGC)

Chair: Caroline Hroncich (United Kingdom)

Chair: Caroline West (University of Orleans, France)

Chair: John Langley (University of Southampton, United Kingdom)

Chair: Gert Desmet (Free University Brussels, Belgium)

Chair: Simone Dimartino (The University of Edinburgh, United Kingdom)

Awards 20:00 - 23:59

Cavern Club

1A

A-2b - Rising Stars of Separation Science Awards/The Cavern Club (LCGC) - BY INVITATION ONLY

Chair: Tony Edge (ISC 2024, United Kingdom)

Chair: Alasdair Matheson (LCGC International, Europe, United Kingdom)

Tuesday, 08. October 2024

| Oral 08:30 - 10:20 | | 1A |
|--|--|---------------|
| 0.19 - Sustainabil | ity 1 | |
| Chair: Didier Thiéba | aut (ESPCI Paris - PSL, France) (Technical University of Crete, Greece) | |
| | Building a Global Culture of Sustainability in Science | 08:30 - 09:00 |
| Presenter: Pernilla S | Sorme (My Green Lab, United Kingdom) | |
| | Putting a number on chromatography sustainability within the pharmaceutical industry: Analytical Method Greenness Score (AMGS) | 09:00 - 09:20 |
| Presenter: Francis I | Power (AstraZeneca, United Kingdom) | |
| | Eco-Optimized HPLC Columns: Navigating Toward a Greener Analytical Future | 09:20 - 09:40 |
| Presenter: David Be | ll (ASKkprime LLC, United States) | |
| | Laboratory Sustainability - the mediocre present and the positive future | 09:40 - 10:00 |
| Presenter: Emma Po | oole (Element Laboratory Solutions, United Kingdom) | |
| | Removing chromatography bottlenecks using convolutional neural network in automated purification | 10:00 - 10:20 |
| Presenter: Rodrigo | Mancini (Sygnature Discovery Ltd, United Kingdom) | |
| | | |
| Oral 08:30 - 10:20 | | 1B |
| 0.11 - Bioanalysis | | |
| Chair: Tim Sangster Chair: Davy Guillar | r (United Kingdom) ne (University of Geneva, Switzerland) | |
| | Large molecule bioanalysis using LC-MS, method optimization considerations | 08:30 - 09:00 |
| Presenter: Ludovicu | is Staelens (UCB Pharma, Belgium) | |
| | The Use of High Throughput (HT) Vacuum Jacketed UHPLC for the Investigation of the Metabolism, Toxicokinetics and "Omic" effects of Methapyrilene in the Rat | 09:00 - 09:20 |
| Presenter: Ian Wilso | on (Imperial College London, United Kingdom) | |
| Presenter: Katie Lay | A review of analytical parameters in 'rapid' liquid chromatographic methods for bioanalysis: Can we do better? wlor (Kings College London, United Kingdom) | 09:20 - 09:40 |
| | Bottom-up Protein LC-MS: Can buffer choice make or break a rapid tryptic digestion assay? | 09:40 - 10:00 |
| Presenter: Ashley S | ean Phillips (Resolian, United Kingdom) | |
| | SMART SAMPLERS FOR SIMPLIFIED LC-MS/MS ANALYSIS OF PROTEIN BIOMARKERS | 10:00 - 10:20 |
| Presenter: Trine G I | Halvorsen (University of Oslo, Norway) | |
| Oral | | |
| 08:30 - 10:20 | | 1C |
| 0.12 - HILIC | (University of Livernee) United Vingdom) | |
| | (University of Liverpool, United Kingdom) (Free University Brussels, Belgium) | |
| | The analysis of small polar molecules by HPLC | 08:30 - 09:00 |

| Presenter: David McCalley (University of the West of England, United Kingdom) | |
|---|---------------|
| Practical applications of HILIC for the analysis of polar compounds <i>Presenter</i> : Tony Edge (ISC 2024, United Kingdom) | 09:00 - 09:20 |
| Characterization of Hydrophilic Interaction Liquid Chromatography (HILIC) Columns using fluorouridine derivatives Presenter: Tohru Ikegami (Kyoto Institute of Technology, Japan) | 09:20 - 09:40 |
| Beyond conventional: evaluating the potential of HILIC for collagen peptide mapping analysis Presenter: Martina Lioi (University of Pavia, Italy) | 09:40 - 10:00 |
| Insights into retention behavior and selectivity in HILIC through quantitative retention mechanism assessment | 10:00 - 10:20 |
| Presenter: Yong Guo (Fairleigh Dickinson University, United States) | |
| <i>Roundtable</i> 09:20 - 10:20 | 3A |
| R2 - CAMS State of the Nation - Separation Science - are we in trouble? | |
| <i>Chair</i> : Melissa Hanna-Brown (University College Cork, Ireland) <i>Panellist</i> : Paul Ferguson (Astra Zeneca, United Kingdom) <i>Panellist</i> : Tony Edge (ISC 2024, United Kingdom) | |
| Panellist: Patrick Knight (Shimadzu Research Laboratory, United Kingdom) Panellist: John Langley (University of Southampton, United Kingdom) | |
| Panellist: Diane Turner (United Kingdom) Panellist: Jackie A Mosely (University of York, United Kingdom) | |
| Refreshments & Exhibition 10:20 - 11:00 | 2 |
| Refreshments & Exhibition | |
| | |
| Oral 11:00 - 12:30 | 1A |
| 0.13 - Big Data Modelling Chair: Kelly Zhang (Genentech, United States) | |
| Chair: Tony Taylor (Element Material Technologies, United Kingdom) | |
| Harnessing Cloud Computing for Breakthroughs in Chromatography and Analytical Chemistry | 11:00 - 11:30 |
| Presenter: Tim Myers (Microsoft, United States) | |
| Exploration of critical parameters for the retention of molecules in achiral Supercritical Fluid Chromatography with the support of Data Science | 11:30 - 11:50 |
| Presenter: Astrid Buica (AstraZeneca AB, Sweden) | |
| Automated Method Development in Liquid Chromatography for Polymer Analysis | 11:50 - 12:10 |
| Presenter: Tijmen S. Bos (University of Amsterdam, Netherlands) | |
| Automating Method Development for 1D and 2D-LC of Biopharmaceuticals | 12:10 - 12:30 |
| Presenter: Bob Pirok (Van 't Hoff Institute for Molecular Sciences, University of Amsterdam, Netherl | ands) |
| <i>Oral</i> 11:00 - 12:30 | 1B |
| 0.14 - Emerging Column Technology 1 | |
| Chair: Michael Laemmerhofer (University of Tuebingen, Institute of Pharmaceutical Sciences, Germa Chair: Lucie Nováková (Charles University, Faculty of Pharmacy, Czech Republic) | 0. |
| Vacuum Jacketed Columns: Principles, Laboratory Practices, and | 11:00 - 11:30 |

| More | |
|--|---------------|
| Presenter: Fabrice Gritti (Waters Corporation, United States) | |
| SPP 3,5-Dinitrobenzamido-silica: exploiting the key strengths of a simple but effective LC Stationary Phase | 11:30 - 11:50 |
| <i>Presenter</i> : Abdulrahman Al-Abcha (School of Pharmacy and Pharmaceutical Sciences, University of United Kingdom) | f Sunderland, |
| Investigating Novel GC Column Chemistries for Improved Performance, Sensitivity and Data Quality and Accuracy Presenter: Vanessa Abercrombie (Agilent Technologies, United States) | 11:50 - 12:10 |
| New Monodisperse fully porous particles (MFPP) for HPLC analysis <i>Presenter</i> : Mark Woodruff (Fortis Technologies Ltd, United Kingdom) | 12:10 - 12:30 |
| <i>Oral</i> 11:00 - 12:30 | 1C |
| 0.15 - Drugs of Abuse | |
| Chair: John Langley (University of Southampton, United Kingdom) Chair: Jackie A Mosely (University of York, United Kingdom) | |
| A Holistic Approach to the Analysis of Novel Psychoactive Substances | 11:00 - 11:30 |
| Presenter: Oliver Sutcliffe (Manchester Metropolitan University, United Kingdom) | |
| Wastewater Analysis for Narcotics Detection at High Temporal Resolution using LC-MS/MS and LC-HRMS | 11:30 - 11:50 |
| Presenter: Leon Barron (Imperial College London, United Kingdom) | |
| Analytical Method Development for Synthetic Opioids in Wastewater to Monitor Community Consumption Activity | 11:50 - 12:10 |
| Presenter: Derryn Grant (Imperial College London, United Kingdom) | |
| "Crossing my fingers! Once more into the abyss". Analytical considerations for detection of nitazene opioids and related substances in today's illicit drug market | 12:10 - 12:30 |
| Presenter: Lewis Couchman (Analytical Services International Ltd, United Kingdom) | |
| Roundtable | |
| 11:30 - 12:30 | 3A |
| R1 - Sustainability in separation science: Is it worth it? | |
| Sustainability in separation science: Is it worth it? | 11:30 - 11:40 |
| Presenter: Matthew Osborne (AstraZeneca UK Operations, United Kingdom) Presenter: Andreas Otto (Agilent Technologies, Germany) Presenter: Elia Psillakis (Technical University of Crete, Greece) Presenter: Pernilla Sorme (My Green Lab, United Kingdom) Presenter: John Warner (Technology Greenhouse, LLC, United States) | |
| Refreshments & Exhibition 12:30 - 13:30 | 2 |
| Lunch & Exhibition | |
| | |
| <i>Tutorial</i> 13:00 - 14:00 | 1B |
| T3 - Applied Troubleshooting for Gas Chromatography | |
| Instructor: Diane Turner (United Kingdom) | |

Instructor: Diane Turner (United Kingdom)

| Vendor Seminar | | |
|---|---|---------------|
| 13:00 - 14:00 | | 3A |
| | ng the Impact of Switching from Helium to Hydrogen Carrier Gas on the of Terpenes Standards Across a Range of SPME Fibres (Restek) | SPME-GCxGC- |
| Instructor: Simona | Nicoara (The Open University, United Kingdom) | |
| Careers Fair | | 20 |
| 13:00 - 16:30 CF1 - Speed-datin | ng job interviews at ISC2024 | 3B |
| P | | |
| <i>Poster</i> 13:30 - 15:00 | | 2 |
| P2 - Posters 2 | | |
| Board 2 | Deep Eutectic Solvent-Based Ultrasound-Assisted Emulsification Microextraction coupled with UHPLC-QTOF-MS for the Rapid Analysis of Paraben Preservatives in Water Samples | 13:30 - 13:30 |
| Presenter: Wanghs | ien Ding (National Central University, Taiwan, China) | |
| Board 5 | The Evolving Landscape of PFAS Detection, an Outline of Methods | 13:30 - 13:30 |
| Presenter: Mollie N | Iero (Restek, United States) | |
| Board 8 | Development of a Semivolatile Column Optimized for the Analysis of Hazardous Waste | 13:30 - 13:30 |
| Presenter: Russell | Haworth (Restek UK, United Kingdom) | |
| Board 11 | Considerations for the analysis of PFAS by LC-MS/MS | 13:30 - 13:30 |
| Presenter: Matt Jan | nes (VWR International Ltd, United Kingdom) | |
| Board 14 | Reduced Instrument Downtime for Organochlorine Pesticide Analysis by Using an Optimized SPE Cartridge for Sample Extract Cleanup | 13:30 - 13:30 |
| Presenter: Sebastia | an Prisacariu (Restek Corporation, United States) | |
| Board 17 | Mitigating Matrix Issues via Filter Aid to Improve Solid-Phase Extraction Methods | 13:30 - 13:30 |
| Presenter: Sebastia | an Prisacariu (Restek Corporation, United States) | |
| Board 20 | Evaluation of removal of steroid hormones in waters and solids from natural wastewater treatment facilities and identification of their main transformation products using ultra-high performance liquid chromatography in combination with high-resolution mass spectrometry | 13:30 - 13:30 |
| Presenter: Rayco G | uedes-Alonso (University of Las Palmas de Gran Canaria, Spain) | |
| Board 23 | Fast, high sensitivity analysis of chlorophenols and common odorants to assess water quality by HiSorb TD-GC-MS | 13:30 - 13:30 |
| Presenter: Terry Bu | ickland (KRSS Ltd UK, United Kingdom) | |
| Board 26 | SWIEET - A salt-free alternative to QuEChERS | 13:30 - 13:30 |
| Presenter: Nadja K | alinke (University of Tuebingen, Institute of Physical and Theoretical Chemistry | , Germany) |
| Board 29 | New Developments in Drug Binding Studies using High- Performance Affinity Microcolumns and Non-Covalent Entrapment: Environmental and Pharmaceutical Applications | 13:30 - 13:30 |
| Presenter: David H | age (University of Nebraska-Lincoln, United States) | |
| Board 32 | Improving Short Chain PFAS Analysis using Reversed Phase Conditions | 13:30 - 13:30 |
| Presenter: Stephan | ie Rosenberg (Advanced Materials Technology, United States) | |
| Board 35 | CHROMATOGRAPHIC PROFILING OF KARATAU ERYNGIUM EXTRACTS | 13:30 - 13:30 |
| Presenter: Mereke | Alimzhanova (Al-Farabi Kazakh National University, Kazakhstan) | |

| Board 38 | Development and Validation of a Novel Method Based on Extraction, Purification and Chromatographic Techniques for Obtaining and Quality Control of Almond Hull Triterpene Acids | 13:30 - 13:30 |
|---|---|---------------|
| Presenter: Imeda Ru | ıbashvili (Ivane Javakhishvili Tbilisi State Univeristy, Georgia) | |
| Board 41 | Automated MicroLLE for Sample Preparation of Semi Volatiles in Water | 13:30 - 13:30 |
| Presenter: Cassandr | a Rusher (ePrep Europe Ltd., United Kingdom) | |
| Board 44 | Using LC-MS/MS analysis to quantify chemical contamination in soils using a passive sampling device. | 13:30 - 13:30 |
| Presenter: Leon Bar | ron (Imperial College London, United Kingdom) | |
| Board 47 | Quantifying tyre emissions in environmental samples using gas chromatography | 13:30 - 13:30 |
| Presenter: Ime Usen | (Emissions Analytics, United Kingdom) | |
| Board 50 | Non-radioactive electron capture detector based on high energy photoionization | 13:30 - 13:30 |
| Presenter: Maximilia Measurement Techn | an J. Kueddelsmann (Leibniz University Hannover, Institute of Electrical Engineeri iology, Germany) | ng and |
| Board 53 | Simultaneous separation of chloramines and common anions in water samples by gradient suppressed ion chromatography with combined conductivity and UV absorbance detection | 13:30 - 13:30 |
| Presenter: Ibraam M | Iikhail (University of Tasmania, Australia) | |
| Board 56 | Stability and assessment of nutrients in parenteral nutrition solutions | 13:30 - 13:30 |
| Presenter: Jelle Vero | lonck (KU Leuven, Belgium) | |
| Board 59 | Two-dimensional HPLC for separation of isomeric compounds in milk thistle (Silybum marianum) extract | 13:30 - 13:30 |
| Presenter: Petr Choo | cholouš (Charles University, Faculty of Pharmacy, Czech Republic) | |
| Board 62 | Comparison of sample preparation for determination of mycotoxins in cannabis and cannabis derived products using LC-FLD and LC- MS/MS | 13:30 - 13:30 |
| Presenter: Giorgia G | Greco (KNAUER, Germany) | |
| Board 65 | The Determination of 510 Pesticide Residues in Agricultural Products by LC-MS/MS and GC-MS/MS | 13:30 - 13:30 |
| Presenter: Ho Won (| Chang (Busan regional office of food and drug safety, Korea, Republic of) | |
| Board 68 | Determination of rare sugars by high performance liquid chromatography | 13:30 - 13:30 |
| Presenter: Annika M | lalz (Shimadzu Europa GmbH, Germany) | |
| Board 71 <i>Presenter</i> : Annika M | Quantitative analysis of quinine in tonic water and bitter lemon Ialz (Shimadzu Europa GmbH, Germany) | 13:30 - 13:30 |
| Board 74 | Great taste and plant-based: Can advanced analytical tools tackle flavour challenges in plant-based foods? | 13:30 - 13:30 |
| Presenter: Terry Bud | ckland (KRSS Ltd UK, United Kingdom) | |
| Board 77 | | 13:30 - 13:30 |
| | Allergen Analyses of Edible Insects: Insights from Scientific Literature | |
| Presenter: Maja Ben | sa (University of Ljubljana, Slovenia) | |
| Board 80 | Miniaturized solid-phase microextraction analysis of pesticides in grapes | 13:30 - 13:30 |

Presenter: Yerkanat Syrgabek (Al-Farabi Kazakh National University, Kazakhstan)

| Board 83 | Determination of dichlorodiphenyltrichloroethane and its | 13:30 - 13:30 |
|---|---|---------------|
| Doard 05 | degradation products in fruits and vegetables using a magnetic solid phase extraction and gas chromatography-mass spectrometry | 13.30 - 13.30 |
| Presenter: Preeyap | oorn Phosiri (Khon Kaen University, Thailand) | |
| Board 86 | Determination of multi-class pesticide residues in food samples using a selective sample enrichment method combined with liquid chromatography-mass spectrometry | 13:30 - 13:30 |
| Presenter: Rodjana | Burakham (Khon Kaen University, Thailand) | |
| Board 89 | The effect of various washing methods on pesticide residues, toxic and essential elements removal in rice | 13:30 - 13:30 |
| Presenter: Khulood | l Alnabati (Saudi Food and Drug Authority, Saudi Arabia) | |
| Board 89 | Automated, highly sensitive analysis of target residual fumigants in foods for regulatory food safety testing by multi-step enrichment-headspace-trap (MSE-HS-trap) coupled with GC-MS | 13:30 - 13:30 |
| Presenter: Terry B | uckland (KRSS Ltd UK, United Kingdom) | |
| Board 92 | Optimisation of Liquid Chromatography Mass Spectrometry to differentiate and Quantify Glycosaminoglycans in Human Breastmilk | 13:30 - 13:30 |
| Presenter: Melissa | Greenwood (Newcastle University, United Kingdom) | |
| Board 95 | Using a Virtual Liquid Chromatography Tool to Develop Methods for Novel Psychoactive Substances | 13:30 - 13:30 |
| Presenter: Mollie N | Nero (Restek, United States) | |
| Board 98 | Quantitation of an Oral Fluid Drug Panel Including THC Using High Resolution Accurate-Mass (HRAM) Orbitrap Mass Spectrometry | 13:30 - 13:30 |
| Presenter: Ed Goud | cher (Thermo Fisher Scientific, United States) | |
| Board 101 | The OPCW Central Analytical Database | 13:30 - 13:30 |
| Presenter: Jakub M | lichał Milczarek (Organisation for the Prohibition of Chemical Weapons, Netherlar | nds) |
| Board 104 | Combining chromatographic techniques with spectroscopic techniques and machine learning algorithms for predicting molecular weight of drugs of abuse: An intelligent hyphenated approach | 13:30 - 13:30 |
| Presenter: Sulaf As | ssi (Liverpool John Moores University, United Kingdom) | |
| Board 107 | Exploring extra-column band broadening effects toward a well- arranged instrumental configuration in capillary liquid chromatography | 13:30 - 13:30 |
| Presenter: Takeshi | Hara (Shimadzu Corporation, Japan) | |
| Board 110 | New Porous Monodisperse HPLC particles | 13:30 - 13:30 |
| Presenter: Mark W | oodruff (Fortis Technologies Ltd, United Kingdom) | |
| Board 113 | New porous monodisperse particles for increasing resolution in Liquid Chromatography | 13:30 - 13:30 |
| Presenter: Mark W | oodruff (Fortis Technologies Ltd, United Kingdom) | |
| Board 116 | Method Transfer Across HPLC Platforms: From Routine to Problematic | 13:30 - 13:30 |
| Presenter: Jennifer | Simeone (Waters Corporation, United States) | |
| Board 119 | Characterization of biomimetic chromatography columns based on plasma proteins through the Abraham solvation parameter model | 13:30 - 13:30 |
| Presenter: Marti Roses (University of Barcelona, Spain) | | |
| Board 122 | Analysis of perfume long-lastingness in personal care products through headspace gas chromatography mass spectrometry method | 13:30 - 13:30 |
| Presenter: Chung I | Lee Yee (Winnox Cosmeceutics Sdn Bhd, Malaysia) | |

| Board 125 | Establishing an internal standard cassette and development strategy suitable for LC-MS/MS quantitation of lipophilic compounds in multiple tissues. | 13:30 - 13:30 |
|----------------------|---|---------------|
| Presenter: Cheryl Pa | arry (Unilabs York Bioanalytical Solutions, United Kingdom) | |
| Board 128 | Consideration of π - π and CH- π interactions as dipole-dipole interactions in biphenyl stationary phases | 13:30 - 13:30 |
| Presenter: Etsuko S | hearer (BioNik Inc., Japan) | |
| Board 131 | GC Method development within the Pharmaceutical Industry - A challenging case study | 13:30 - 13:30 |
| Presenter: Benjamin | Berkoff (Pharmaron UK, United Kingdom) | |
| Board 134 | Utilizing a UPLC [™] (Ultra Performance Liquid Chromatography) system coupled to a compact benchtop Time of Flight Mass Spectrometer(ToF) for rapid accurate mass information in a walk- up environment | 13:30 - 13:30 |
| Presenter: Chris He | nry (Waters Corporation, United Kingdom) | |
| Board 137 | Trapped Ion Mobility Separation as an Additional Dimension for Better Coverage of Isomeric Lipids and Metabolites in UHPLC/MS of Biological Samples | 13:30 - 13:30 |
| Presenter: Robert Ji | rásko (University of Pardubice, Czech Republic) | |
| Board 140 | Chemical characterization and fractionation of bioactive compounds derived from European medicinal plants | 13:30 - 13:30 |
| Presenter: Katharina | a Wetzel (University of Duisburg-Essen, Germany) | |
| Board 143 | Size and Composition Analysis of Polymeric Drug Delivery Systems by Two-Dimensional Liquid Chromatography with Online Sample Transformation | 13:30 - 13:30 |
| Presenter: Joshka Ve | erduin (Vrije Universiteit Amsterdam, Netherlands) | |
| Board 146 | LC Fractionation as sample preparation technique for ¹⁴ C quantitation with accelerator mass spectrometry to study drug metabolism and bioavailability of new pharmaceutical drugs | 13:30 - 13:30 |
| Presenter: Jonas Dir | nser (Boehringer Ingelheim Pharma GmbH & Co KG, Germany) | |
| Board 149 | Comparison of Electrospray and UniSpray in Profiling of Endogenous Steroids in Plasma Samples | 13:30 - 13:30 |
| Presenter: Taťána G | azárková (Charles University, Faculty of Pharmacy, Czech Republic) | |
| Board 152 | Ultra-Fast Scanning Quadrupole Mass Spectrometry Combined with GCxGC for Comprehensive Analysis of Complex Matrix Samples | 13:30 - 13:30 |
| Presenter: Kazuhiro | Kawamura (Shimadzu Corporation, Japan) | |
| Board 155 | Development of an immobilised artificial membrane liquid chromatography-mass spectrometry-based platform for high throughput and reliable assessments of the pulmonary permeability of drugs | 13:30 - 13:30 |
| Presenter: Amy Dillo | on (Edinburgh Napier University, United Kingdom) | |
| Board 158 | Distribution of selected technology-critical elements among cytosolic biomolecules in the northern pike liver analysed by hyphenated system of size exclusion high-performance liquid chromatography and inductively coupled plasma mass spectrometry (SEC-HPLC-ICP-MS) | 13:30 - 13:30 |
| Presenter: Zoran Kii | ralj (Ruđer Bošković Institute, Croatia) | |
| Board 161 | A chemometric approach for chemical characterization of recycled plastic used in personal care packaging with pyrolysis-APGC-QToF mass spectrometry | 13:30 - 13:30 |
| Presenter: Rachel Sa | anig (University of Liverpool, United Kingdom) | |
| Board 164 | Online Nanoflow Ion-Exchange Chromatography - Native Mass Spectrometry in Characterization of Complex Proteoform Mixtures | 13:30 - 13:30 |

| Presenter: Ziran Zhai (University of Amsterdam, Netherlands) | | |
|---|--|------------------|
| Board 167 | An exhaustive characterization of polyvinyl chloride to support chemical recycling processes by two-dimensional SEC-RPLC-ESI- HRMS method for five PVC waste. | 13:30 - 13:30 |
| Presenter: Noémie | e Auchère (IFP Energies Nouvelles, France) | |
| Board 170 | A novel generic approach, avoiding SPE and enzymatic phosphorylation, to the measurement of labile phosphate metabolites of antiviral pro-drugs in dried blood spots by column switching Anion-Exchange/HILIC-MS/MS | 13:30 - 13:30 |
| Presenter: Mark B | ayliss (North Bristol NHS Trust, United Kingdom) | |
| Board 173 | Improved Separation of Anhydrosugar Isomers using HILIC-MS: Application to Biomass Burning Marker Detection in Environmental Samples | 13:30 - 13:30 |
| Presenter: Brett P | aull (University of Tasmania, Australia) | |
| Board 176 | Development of an HPLC-HRMS method for the identification and semi-quantitation in river water samples of the transformation products originated from heterogenous photocatalysis of antipsychotic drugs | 13:30 - 13:30 |
| Presenter: Federic | ca Dal Bello (University of Turin, Italy) | |
| Board 179 | Chromatographic Resolution and Investigation of Structurally Related Components during the Quantitative Analysis of N-Nitroso- Propranolol in Drug Substance using LC-MS/MS | 13:30 - 13:30 |
| Presenter: Amy Ba | artlett (Waters Corporation, United Kingdom) | |
| Board 182 | Deciphering the glycan isomers of glycosphingolipids in biological samples using a porous graphitized carbon column | 13:30 - 13:30 |
| Presenter: Karel H | Iořejší (University of Pardubice, Czech Republic) | |
| Board 185 | Towards stability monitoring of polymer nanoparticles by online two-dimensional hydrodynamic and size-exclusion chromatography | 13:30 - 13:30 |
| Presenter: Thomas | s Holmark (University of Amsterdam, Netherlands) | |
| Board 188 | Characterization of Sugammadex-related Isomeric Cyclodextrin Impurities by Cyclic Ion Mobility High-Resolution Mass Spectrometry Methods | 13:30 - 13:30 |
| Presenter: Péter S | oma Szakály (Hevesy György PhD School of Chemistry, ELTE Eötvös Loránd Univ | ersity, Hungary) |
| Board 191 | Hyper-fast gas chromatograph and ion mobility spectrometer with flow-optimized ion source and high repetition rate to resolve short chromatographic peaks | 13:30 - 13:30 |
| <i>Presenter</i> : Alexand Technology, Germ | der Nitschke (Leibniz University Hannover, Institute of Electrical Engineering and | Measurement |
| Board 194 | Optimising biocatalytic esterification of fatty acids in aqueous conditions by GC-MS. | 13:30 - 13:30 |
| Presenter: Rhona | Cowan (University of Edinburgh, United Kingdom) | |
| Board 197 | RP-UHPLC columns: evaluation guidelines and quick selection tool | 13:30 - 13:30 |
| Presenter: Cristina | a Suteu (Novartis PHARMA AG, Switzerland) | |
| Board 200 | Optimisation of UHPLC determination of furans and phenols in biorefinery products | 13:30 - 13:30 |
| Presenter: Kristine Meile (Latvian State Institute of Wood Chemistry, Latvia) | | |
| Board 203 <i>Presenter</i> : László | Analytical challenges in ADME studies using the HPLC-UV method Valkai (Gedeon Richter Plc, Hungary) | 13:30 - 13:30 |
| Board 206 | Development of a sensitive Liquid Chromatography-Tandem Mass Spectrometry analytical method of steroid hormones in small whale blubber biopsies | 13:30 - 13:30 |
| Presenter: Daniela | a Dulgheriu (Norwegian University of Life Sciences, Norway) | |

| Board 209 | On-chip packing of silicon-glass microfluidic channels: Novel column formats in HPLC miniaturisation | 13:30 - 13:30 |
|--|---|---------------|
| Presenter: Mitch De | Waard (Vrije Universiteit Brussel, Belgium) | |
| Board 212 | Rapid analysis of volatile flavour compounds by headspace GC-MS | 13:30 - 13:30 |
| Presenter: Asger Ge | ppel (Novonesis A/S, Denmark) | |
| Board 215 | Wafer-scale rubbing-induced microsphere assembly: A step closer to ordered structures in liquid chromatography | 13:30 - 13:30 |
| Presenter: Ignaas Sl | hiraaz Jimidar (Vrije Universiteit Brussel, Belgium) | |
| Board 218 | Rapid Screening of Herbal Medicine Using Single Quadrupole LC- MS | 13:30 - 13:30 |
| Presenter: Yoshiyuk | i Watabe (Shimadzu General Service, Japan) | |
| Board 221 | Monitoring the Aging of Natural Ester Insulating Fluids using SFC- MS | 13:30 - 13:30 |
| Presenter: Julie Her | niman (University of Southampton, United Kingdom) | |
| Board 224 | DEVELOPMENT AND VALIDATION OF A STABILITY-INDICATING RP-HPLC METHOD COUPLED BY TANDEM MASS SPECTROMETRY FOR RITLECITINIB AND ITS DEGRADATION PRODUCTS | 13:30 - 13:30 |
| Presenter: Jelena Ko | ovačić (University of Zagreb, Croatia) | |
| Board 227 | Size-resolved characterization of lipid-based nanoparticles with online coupled asymmetric flow field flow fractionation and small angle x-ray scattering | 13:30 - 13:30 |
| Presenter: Herje Scl | hagerlöf (Lund University, Sweden) | |
| Board 230 | Best Practices for Liposome Analysis with the Charged Aerosol Detector | 13:30 - 13:30 |
| Presenter: Susanne | Fabel (Thermo Fisher Scientific, Germany) | |
| Board 233 | Comparison of the pharmacokinetics and metabolic fate of gefitinib - 3 - PROTACs and gefitinib in the rat following subcutaneous dosing | 13:30 - 13:30 |
| Presenter: Amy Bart | clett (Waters Corporation, United Kingdom) | |
| Board 236 | Do all methods described in the pharmacopoeia really work? Adaptation and verification of a theoretically incorrect pharmacopeial method | 13:30 - 13:30 |
| Presenter: Istavan K | | |
| Board 239 | The Benefits of Comprehensive Two-Dimensional Liquid Chromatography for the Separation of Complex Biological Mixtures | 13:30 - 13:30 |
| Presenter: Hannah I | Denison (Syngenta, United Kingdom) | |
| <i>Tutorial</i> 14:00 - 15:00 | | 1C |
| | ation modelling for chromatographic separations | |
| | ine Castel (AstraZeneca, United Kingdom) Field (Shimadzu UK, United Kingdom) | |
| <i>Vendor Seminar</i> 14:00 - 15:00 | | 3A |
| V5 - Vendor-neutr | al automation of any LC-MS data for reporting and ML/AI (Mestrelab) | |
| | | |
| <i>Oral</i> 15:00 - 16:30 | | 1A |
| 0.16 - Miniaturisa | tion | IA |
| <i>Chair</i> : Jörg Kutter (I <i>Chair</i> : Oliver Sutclif | Denmark) fe (Manchester Metropolitan University, United Kingdom) | |

| To Infinity (1290) and Beyond - Miniaturising HPLC out of the lab <i>Presenter</i> : Ali Salehi-Reyhani (Imperial College London, United Kingdom) | 15:00 - 15:30 |
|---|---------------|
| ChromaSkin and Permeapad®: innovative tools for investigating the passage through the skin of chemicals. Presenter: Ilaria Neri (University of Naples Federico II, Italy) | 15:30 - 15:50 |
| resenter. hard iven (oniversity of ivapies redened if, italy) | |
| Portable ion chromatography-based platform for robust in-field analysis of nitrogen containing anions and cations in environmental and industrial waters | 15:50 - 16:10 |
| Presenter: Brett Paull (University of Tasmania, Australia) | |
| Rapid and Reliable Nitrite Content Analysis in Pharmaceutical Excipients with the ACQUITY TM QDa TM II Mass Detector | 16:10 - 16:30 |
| Presenter: Henry Foddy (Waters Corporation, United Kingdom) | |
| | |
| <i>Oral</i> 15:00 - 16:30 | 1B |
| 0.17 - Clinical | |
| <i>Chair</i> : Michal Holčapek (University of Pardubice, Czech Republic) <i>Chair</i> : Coral Barbas (Universidad San Pablo CEU, Spain) | |
| Quantitative Retention-Chemical Structure Relationship (QSRR) in the study of biological activity | 15:00 - 15:30 |
| Presenter: Bogusław Buszewski (KUJAWSKO-POMORSKIE CENTRUM NAUKOWO-TECHNOLOGICZ JANA CZOCHRALSKIEGO, Poland) | ZNE IM. PROF. |
| HILIC/MS Quantitation of Low-Abundant Phospholipids and Sphingolipids in Human Plasma and Serum: Dysregulation in Pancreatic Cancer | 15:30 - 15:50 |
| Presenter: Ondrej Peterka (University of Pardubice, Czech Republic) | |
| Body volatolome, from sampling to understanding: a promising solution for health monitoring | 15:50 - 16:10 |
| Presenter: Elsa Boudard (ESPCI, France) | |
| Machine Guided Optimization of Organic Semi-Conductor Films for Light Activated Antimicrobials and Antiviral Surfaces | 16:10 - 16:30 |
| Presenter: Joseph Kaye (Imperial College London, United Kingdom) | |
| | |
| <i>Oral</i> 15:00 - 16:30 | 1C |
| 0.18 - Separation Technology of the Future | - |
| Chair: Gertrud Morlock (Justus Liebig University Giessen, Germany) | |
| Chair: Bo Zhang (Xiamen University, China) | |
| The fantastic world of gold colloids and other things small | 15:00 - 15:30 |
| Presenter: Mathias Brust (University of Liverpool, United Kingdom) | |
| The Power of Vacuum UV Detection in Gas Chromatography in the Pharmaceutical Industry | 15:30 - 15:50 |
| Presenter: Richard Ladd (VUV Analytics, United States) | |
| Unravelling the mobility profiles of protonated pharmaceutical ions: a comparative study using advanced ion mobility spectrometry techniques | 15:50 - 16:10 |
| Presenter: Jackie A Mosely (University of York, United Kingdom) | |
| In-Column Derivatisation' (ICD): A modernised approach to selective post-column assays | 16:10 - 16:30 |
| Presenter: Matt James (VWR International Ltd, United Kingdom) | |

Presenter: Matt James (VWR International Ltd, United Kingdom)

| <i>Roundtable</i> 15:30 - 16:30 | 3A |
|---|---------------|
| R3 - Need for Chromatography Roundtable | |
| Refreshments & Exhibition 16:30 - 17:10 | 2 |
| Refreshments & Exhibition | |
| Plenary 17:10 - 18:10 | 1A |
| P-3 - Sustainable Separations for a Circular Economy through Green Chemistry | |
| <i>Chair</i> : Paul Ferguson (Astra Zeneca, United Kingdom) <i>Speaker</i> : John Warner (Technology Greenhouse, LLC, United States) | |
| Sustainable Separations for a Circular Economy through Green Chemistry | 17:10 - 17:55 |

Presenter: John Warner (Technology Greenhouse, LLC, United States)

Wednesday, 09. October 2024

| <i>Oral</i> 08:10 - 10:00 | | 1A |
|-------------------------------------|---|---------------|
| 0.10 - Oligonucleotides | | |
| Chair: Christina Vanhinsber | gh (AstraZeneca, United Kingdom) | |
| | ation of next-generation therapeutic oligonucleotides using ir chromatography based on fundamental separation science | 08:10 - 08:40 |
| Presenter: Torgny Fornsted | t (Karlstad university, Sweden) | |
| | LC-UV to MS-based methodology for the analysis of siRNA (Novartis Pharma AG, Switzerland) | 08:40 - 09:00 |
| | ntion method development of oligonucleotides on mixed-mode n and by 2D-LC/UV/MS | 09:00 - 09:20 |
| Presenter: Jufang Wu Ludvi | gsson (AstraZeneca, Sweden) | |
| Chrom Intera | opment of Multiple Heartcutting Two-Dimensional Liquid hatography with Ion-Pairing Reversed-Phase and Hydrophilic ction Chromatography for Characterization of Impurities in peutic Oligonucleotides | 09:20 - 09:40 |
| Presenter: Daniel Meston (C | Gustavus Adolphus College, United States) | |
| | ling the myths of Oligonucleotide chromatography no Fisher Scientific, United Kingdom) | 09:40 - 10:00 |
| | | |
| <i>Oral</i> 08:10 - 10:00 | | 1B |
| 0.20 - BMSS - Mass Spec | trometry in Separation Science | |
| Chair: Jackie A Mosely (Univ | versity of York, United Kingdom) | |
| Analys | is of Bicycles- Novel Medium Molecules | 08:10 - 08:40 |
| Presenter: Andrew Feilden | (Bicycle Therapuetics, United Kingdom) | |
| Monito MS | oring the Aging of Natural Ester Insulating Fluids using SFC- | 08:40 - 09:00 |
| Presenter: Julie Herniman (| University of Southampton, United Kingdom) | |
| Introd | ustest Chromatography is No Chromatography at All: ucing Selected Ion Flow Tube Mass Spectrometry (SIFT-MS) ment Material Technologies, United Kingdom) | 09:00 - 09:20 |
| Resolu | cedented Reproducibility Achieved in the First High- ition Ion Mobility Inter-lab Lipidomic Study of Human | 09:20 - 09:40 |
| Plasma Presenter: Lucy Woods (MO | a BILion Systems, United States) | |
| Modifi | Arrow Mass Spectrometry: A Seamless Integration of ed Paper Chromatography with Paper Spray for an Exemplary al Scenario of Paracetamol Overdose | 09:40 - 10:00 |
| | iversity of Liverpool, United Kingdom) | |
| | | |
| <i>Oral</i> 08:10 - 10:00 | | 1C |
| 0.21 - Water analysis | | |
| · · · | al College London, United Kingdom) .indsay (University of Glasgow, United Kingdom) | |
| the oc | e for a Cocktail? Applying analytical techniques to investigate currence of chemicals of emerging concern in the aquatic nment. | 08:10 - 08:40 |

| D . - | | |
|-------------------------------------|--|---------------|
| Presenter: Fiona Reg | gan (School of Chemical Sciences, Dublin City University, Ireland) | |
| | Portable and field-deployable liquid chromatography - mass spectrometry system for haloacetic acids analysis in drinking water | 08:40 - 09:00 |
| Presenter: Ibraam M | fikhail (University of Tasmania, Australia) | |
| | Development of a column switching for direct online enrichment and separation of polar and nonpolar analytes from aqueous matrices | 09:00 - 09:20 |
| Presenter: Kjell Kocl | hale (Institut für Umwelt & Energie, Technik & Analytik e.V., Germany) | |
| Presenter: Michael M | Enhanced Non-Targeted Analysis Efficiency and Identification Confidence for Polyfluorinated Alkyl Substances Using Liquid Chromatography and Cyclic Ion Mobility Mass Spectrometry McCullagh (Waters Corporation, United Kingdom) | 09:20 - 09:40 |
| | Development and application of non-target and suspect screening for environmental chemical regulatory purposes in the United Kingdom | 09:40 - 10:00 |
| Presenter: Emmelia | nna Kumar (Environment Agency United Kingdom, United Kingdom) | |
| | | |
| Refreshments & Exh 10:00 - 10:40 | ibition | 2 |
| Refreshments & E | xhibition | |
| | | |
| <i>Oral</i> 10:40 - 12:10 | | 1A |
| 0.22 - Untargeted | Analysis 1 | IA |
| - | t (University of Liverpool, United Kingdom) | |
| | son (Keele University, United Kingdom) | |
| Presenter: Coral Bar | The Power of Separation Techniques in Metabolomics bas (Universidad San Pablo CEU, Spain) | 10:40 - 11:10 |
| | Untargeted analysis of antioxidant degradation products utilising LC-HRMS | 11:10 - 11:30 |
| Presenter: Siobhan I | Murphy (Element Life Sciences Manchester, United Kingdom) | |
| | Building of a high-resolution mass spectral library by LC-Orbitrap: chemical exposure agents | 11:30 - 11:50 |
| Presenter: Stepan K | oudelka (Masaryk University, Czech Republic) | |
| | The Role of Semi-Quantitative Approach in Identifying Fragrance Content in Perfumes | 11:50 - 12:10 |
| Presenter: adnan AL | MUSSALLAM (Saudi food and drug authority, Saudi Arabia) | |
| | | |
| <i>Oral</i> 10:40 - 12:10 | | 1B |
| 0:40 - 12:10 | | ID |
| | lational Institute of Chemistry, Slovenia) | |
| | The Flavors of Chromatography | 10:40 - 11:10 |
| Presenter: Lewis Jon | nes (Sensient Flavors & Extracts, United Kingdom) | |
| | Novel Stationary Phase for the Separation of all Classes of Carbohydrates | 11:10 - 11:30 |
| Presenter: Jean-Pier | re Chervet (Antec Scientific, Netherlands) | |
| Prosentor Schastian | Comparison of state-of-the-art analytical platforms for the analysis of growth promotors in livestock biofluids n Löbbecke (University of Duisburg-Essen, Germany) | 11:30 - 11:50 |
| riesenter. Sepustial | | |
| | Advantages of SFC-MS over LC-MS in food safety analysis | 11.50 - 12.10 |

Advantages of SFC-MS over LC-MS in food safety analysis 11:50 - 12:10

Presenter: Gesa Schad (Shimadzu Europa GmbH, Germany)

| Chair: David McCall | Column Technology 2 ey (University of the West of England, United Kingdom) n (Gustavus Adolphus College, United States) | 1C |
|--|---|---------------|
| Chair: Damer Mesto | Chromatographic column orderliness achieved by bottom-up precision engineering | 10:40 - 11:10 |
| Presenter: Bo Zhang | g (Xiamen University, China) | |
| | 3D printed stationary phases for the downstream processing of therapeutic antibodies | 11:10 - 11:30 |
| Presenter: Simone I | Dimartino (The University of Edinburgh, United Kingdom) | |
| | Crosslinking Effects on the Separation of Anions with Novel Hybrid Anion Exchangers for Ion Chromatography | 11:30 - 11:50 |
| Presenter: Andrew 2 | Zill (Thermo Fisher Scientific, United States) | |
| | | 11:50 - 12:10 |
| | Orthogonal separation in comprehensive two-dimensional liquid chromatography (LC \times LC) using Sil-Lys-2C18 as stationary phase in both dimensions | |
| Presenter: Yassine (| Dulad El Majdoub (Duisburg-Essen, Germany) | |
| Refreshments & Exh 12:10 - 13:10 Lunch & Exhibitio | | 2 |
| | MS; If a little bit works, then a little bit less probably works better! vlor (Element Material Technologies, United Kingdom) | 1B |
| <i>Poster</i> 13:10 - 14:40 | | 2 |
| P3 - Posters 3 | | |
| Board 3 | Exploring chromatographic modes hyphenated to MS for improved characterization of phosphorothioated oligonucleotides | 13:10 - 13:10 |
| Presenter: Luca Tut | iš (Vrije Universiteit, Netherlands) | |
| Board 6 | Chemometric strategies for characterization and optimization of oligonucleotide separations | 13:10 - 13:10 |
| Presenter: Sanne E. | Boot (University of Amsterdam, Netherlands) | |
| Board 9 | Analysis of therapeutic phosphorothioate oligonucleotides, their impurities and metabolites by liquid chromatography coupled with mass spectrometry | 13:10 - 13:10 |
| Presenter: Zuzana V | osáhlová (Charles University, Faculty of Science, Czech Republic) | |
| Board 12 | Effective method transfer of semi-preparative reversed-phase liquid chromatographic purification of oligonucleotides | 13:10 - 13:10 |
| Presenter: Katherine | e Lovejoy (Thermo Fisher Scientific, Germany) | |
| Board 15 | Analysis of mRNA therapeutics using Ion- Pair Reversed- Phase HPLC | 13:10 - 13:10 |
| Presenter: Alexandr | a Webb (University of Sheffield, United Kingdom) | |

| Board 18 | Ultra-sensitive quantitation of therapeutic oligonucleotide in human plasma by liquid chromatography combined with both high resolution accurate mass Orbitrap mass spectrometer and Triple Quadrupole mass spectrometer | 13:10 - 13:10 |
|---|---|---------------|
| Presenter: Jon Bards | sley (Thermo Scientific, United Kingdom) | |
| Board 21 | Investigation of IEX-HPLC for single base resolution sgRNA quality control Demonstrating a time-saving approach for good separation in drug development | 13:10 - 13:10 |
| Presenter: Nils Scho | mann (BioSpring GmbH, Germany) | |
| Board 24 | Analysis of Oligonucleotide Therapeutics Using 2D Liquid Chromatography | 13:10 - 13:10 |
| Presenter: Jessica D | ale (University of Sheffield, United Kingdom) | |
| Board 27 | Multi-attribute method to characterize mRNA cap and tail, by UPLC-MS | 13:10 - 13:10 |
| Presenter: Agathe B | ousquier (Sanofi, France) | |
| Board 30 | Rapid and reliable MS-based identification of oligonucleotide impurities in a regulatory-compliant environment | 13:10 - 13:10 |
| Presenter: Marcus H | Ioffmann (Thermo Fisher Scientific, Germany) | |
| Board 33 <i>Presenter</i> : Colin Pipe | Optimising the extraction of oligonucleotides by SPE e (Avantor, United Kingdom) | 13:10 - 13:10 |
| Board 36 <i>Presenter</i> : Peter Pel | New Column Technology for Improved Oligonucleotide Separations legrinelli (Advanced Materials Technology, United States) | 13:10 - 13:10 |
| Board 39 | Advancing mRNA analysis: exploring possibilities of ion-pairing RPLC | 13:10 - 13:10 |
| <i>Presenter</i> : Jonathan Switzerland) | Maurer (Institute of Pharmaceutical Sciences of Western Switzerland, University | of Geneva, |
| Board 42 | Multi-attribute method to characterize mRNA cap and tail, by UPLC- MS | 13:10 - 13:10 |
| Presenter: Agathe B | ousquier (Sanofi, France) | |
| Board 45 | Going Big, Small, and Low: Semi-Prep Columns with Small Particles for Polynucleotide Applications | 13:10 - 13:10 |
| Presenter: Richard V | Villiams (Thermo Fisher Scientific, United Kingdom) | |
| Board 48 | A Novel Sampling and Gas-Phase Derivatization Strategy Using Silica Monoliths for Gas Chromatography-Mass Spectrometry-based Metabolomics | 13:10 - 13:10 |
| Presenter: Kazuhiro | Kawamura (Shimadzu Corporation, Japan) | |
| Board 51 | Aza-Paternò-Büchi Reaction Allows Pinpointing Carbon-Carbon Double Bonds in unsaturated lipids from different seaweed species by untargeted approach | 13:10 - 13:10 |
| Presenter: Anna Lau | ra Capriotti (Sapienza University of Rome, Italy) | |
| Board 54 | Multi-targeted analysis of steroids by liquid chromatography- tandem mass spectrometry | 13:10 - 13:10 |
| Presenter: Min Su (U | Jniversity of Tuebingen, Germany) | |
| Board 57 | Solid-phase extraction sample pretreatment for LC-MS analysis of metabolites in biological samples | 13:10 - 13:10 |
| Presenter: Klára Fai | stauerová (University of Hradec Králové, Czech Republic) | |
| Board 60 | Development of LC/MS platform for analysis of polar metabolites, endocannabinoids and oxylipins in biological samples | 13:10 - 13:10 |
| Presenter: Zdenka N | leuerova (University of Hradec Králové, Czech Republic) | |
| Board 63 | Identification of key biomarkers to personalize management and cure of patients with cholangiocarcinoma | 13:10 - 13:10 |

| Presenter: Andrea C | errato (Sapienza University of Rome, Italy) | |
|---|---|---------------|
| Board 66 | Development of RP-LC x chiral SFC-MS approach for analysis of FAHFA isomers in biological samples | 13:10 - 13:10 |
| Presenter: Oleksand | r Kozlov (University of Hradec Králové, Czech Republic) | |
| Board 69 | Comprehensive Single-Platform Lipidomic/Metabolomic Analysis Using Supercritical Fluid Chromatography-Mass Spectrometry | 13:10 - 13:10 |
| Presenter: Miroslav | Lísa (University of Hrace Králové, Czech Republic) | |
| Board 72 | Comprehensive Analysis of Nonpolar Lipids in Human Plasma and Serum Samples using RP-UHPSFC/MS | 13:10 - 13:10 |
| Presenter: Veronika | Šubrtová (University of Pardubice, Czech Republic) | |
| Board 75 | Effect of Mobile Phase Composition on Retention Behavior of Metabolites in Bioinert LC Analysis | 13:10 - 13:10 |
| Presenter: Alena Lai | ngová (UNIVERSITY OF PARDUBICE, Czech Republic) | |
| Board 78 | High-Throughput and Comprehensive Lipidomic Analysis by UHPSFC/MS Using a Bioinert Column | 13:10 - 13:10 |
| Presenter: Petra Per | outková (University of Pardubice, Czech Republic) | |
| Board 81 | Method development for the determination of aromatic amino acids and their gut microbiota-host cometabolites in human urine by LC- MS/MS | 13:10 - 13:10 |
| Presenter: Domniki | Gallou (Aristotle University of Thessaloniki, Greece) | |
| Board 84 | Whole Blood Untargeted Metabolomics in Three Microsampling Devices using GC-MS: An optimization Study | 13:10 - 13:10 |
| Presenter: Georgios | Theodoridis (Aristotle University of Thessaloniki, Greece) | |
| Board 87 | New derivatization method for the determination of non-polar lipids using RP-UHPLC/MS/MS in negative ion mode | 13:10 - 13:10 |
| Presenter: Yasmin K | adyrbekova (University of Pardubice, Czech Republic) | |
| Board 90 | Comprehensive multidimensional UHPLC×UHPSFC/MS-MS analysis of human plasma samples | 13:10 - 13:10 |
| Presenter: Tomáš Ha | ájek (University of Pardubice, Czech Republic) | |
| Board 93 | An untargeted analytical workflow based on Kendrick mass defect filtering reveals dysregulations in acylcarnitines in prostate cancer tissue | 13:10 - 13:10 |
| Presenter: Enrico Ta | aglioni (Sapienza University of Rome, Italy) | |
| Board 96 | Determination Of Short Chain Fatty Acids (SCFAs) In Human Fecal Samples By GC-MS | 13:10 - 13:10 |
| Presenter: Christina | Virgiliou (Biomic AUTh, Greece) | |
| Board 99 | Versatile use of microfluidic LC columns, optimized configuration for achieving significant increases in proteome coverage at low nanoLC flow rates | 13:10 - 13:10 |
| Presenter: Michael (| Dliver (Thermo Fisher Scientific, United Kingdom) | |
| Board 102 | Statistical tools for comparing chromatographic assay methods to other analytical techniques during method validation | 13:10 - 13:10 |
| Presenter: Jean-Mar | c Roussel (Independent consultant, France) | |
| Board 105 <i>Presenter</i> : Raymond | Anytime anywhere access to HPLC instruments for students Wong (Shimadzu, United Kingdom) | 13:10 - 13:10 |
| Board 108 | Derivatisation as a mean for response factor levelling-up to improve LC analysis: a case study | 13:10 - 13:10 |
| Presenter: Emanuele | e Petruzzella (Emanuele Petruzzella, United Kingdom) | |
| Board 111 | Advancements in Chemical Analysis: Identifying 28 Allergens in Cosmetics using GC-MS | 13:10 - 13:10 |

| Presenter: KHALID | ALABDULLATIF (Saudi Food and Drugs Authority, Saudi Arabia) | |
|----------------------|--|---------------|
| Board 114 | HPTLC-MS ⁿ and HPTLC-image analyses of phytochemicals in leaves, fruits and bark of staghorn sumac (<i>Rhus typhina</i> L.) | 13:10 - 13:10 |
| Presenter: Vesna Gla | avnik (National Institute of Chemistry, Slovenia) | |
| Board 117 | SIMULTANEOUS SEPARATION OF CARDIOVASCULAR MEDICARIONS IN THEIR COMBINATION DRUGS USING MICELLAR LIQUID CHROMATOGRAPHY | 13:10 - 13:10 |
| Presenter: Ibrahim A | Alothaim (Saudi Food and Drug Authority, Saudi Arabia) | |
| Board 120 | Development of a Fast LC-ESI-MS/MS Method for Biomonitoring Livestock Antiparasitic Residues in Greece: Quantification of Ivermectin, Albendazole, and Their Metabolites in Sheep Plasma and Faeces | 13:10 - 13:10 |
| Presenter: Theodora | a Barmpouni (Benaki Phytopathological Institute, Greece) | |
| Board 123 | Development of a Sensitive Method for the determination of Enrofloxacin in falsified veterinary medicine | 13:10 - 13:10 |
| Presenter: Ibrahim A | Alothaim (Saudi Food and Drug Authority, Saudi Arabia) | |
| Board 126 | Gas Chromatography-Tandem Mass Spectrometry Method for the Quantitative Determination of Ethylene Glycol and Diethylene Glycol in Pediatric Syrups | 13:10 - 13:10 |
| Presenter: Yahya M. | Alshehri (Saudi Food and Drug Authority, Saudi Arabia) | |
| Board 129 | Evaluation of PolyArc ® detector with splitless and cool-on-column injection modes for quantification by Gas Chromatography without reference materials | 13:10 - 13:10 |
| Presenter: Anna Yat | es (Syngenta, United Kingdom) | |
| Board 132 | Analytical Validation Studies for Sampling and Quantitative Determination of Terbinafine HCl Residues on the Pharmaceutical Equipment Surfaces for Cleaning Validation | 13:10 - 13:10 |
| Presenter: Imeda Ru | ıbashvili (Ivane Javakhishvili Tbilisi State Univeristy, Georgia) | |
| Board 135 | Exploring the selectivity of commercially-available anion-exchange LC stationary phases | 13:10 - 13:10 |
| Presenter: Ahmed M | lazen (University of Sunderland, United Kingdom) | |
| Board 138 | A Teaching and Research Laboratory Facility, Training the Next Generation | 13:10 - 13:10 |
| Presenter: Alba Nav | arro Rodriguez (The University of Edinburgh, United Kingdom) | |
| Board 141 | Corrosion inhibitors: how can non-specific interactions and adsorption impact quantification using UHPLC-HRMS? | 13:10 - 13:10 |
| Presenter: Didier Th | iébaut (ESPCI Paris - PSL, France) | |
| Board 144 | Detailed chemical characterisation of pyrolysis oils from mixed plastic waste using GC×GC-TOF MS | 13:10 - 13:10 |
| Presenter: Terry Bu | ckland (KRSS Ltd UK, United Kingdom) | |
| Board 147 | Multi-technique approach for the classification and characterisation of new biofuels | 13:10 - 13:10 |
| Presenter: Laval Nic | colas (University of Southampton, United Kingdom) | |
| Board 150 | Functionality-type and chemical-composition separation for poly(lactide-co-glycolide) using gradient elution with basic and acidic additives in normal phase liquid chromatography | 13:10 - 13:10 |
| Presenter: Masashi | Serizawa (University of Amsterdam, Netherlands) | |
| Board 153 | Structural Analysis of Cationic Modified Polysaccharides by Gas Chromatography | 13:10 - 13:10 |
| | lepel (Dow Germany, Germany) | |
| Board 156 | Method Development for the Analysis of Biopolymers as Polylactic | 13:10 - 13:10 |

| Duccenter Cierrie (| Acid with Gel Permeation Chromatography | |
|---|--|---------------|
| Presenter: Giorgia | Greco (KNAUER, Germany) | |
| Board 159 | New approach for the depletion of Δ^9 -THC from CBD rich samples by Simulated Moving Bed | 13:10 - 13:10 |
| Presenter: Greta Co | mpagnin (University of Ferrara, Italy) | |
| Board 162 | Development of purification strategies for natural compounds by simulated moving bed chromatography in lab scale | 13:10 - 13:10 |
| Presenter: Yannick | Krauke (KNAUER Wissenschaftliche Geräte GmbH, Germany) | |
| Board 165 | Enhancing normal phase LC purification of Vitamin K1 cis- and trans- isomers through accurate fraction collection with temperature control | 13:10 - 13:10 |
| Presenter: Maria Gi | rübner (Thermo Fisher Scientific, Germany) | |
| Board 168 | Innovative separation platform via novel macro porous spongy monoliths for high throughput affinity chromatography. | 13:10 - 13:10 |
| Presenter: Tetsuya | Tanigawa (Kyoto Prefectural University, Japan) | |
| Board 171 | Determining Purity Using Charged Aerosol Detector with Inverse Gradient: A Revolutionary Approach | 13:10 - 13:10 |
| Presenter: Dominika | a Mária Herr (Cyclolab Ltd., Hungary) | |
| Board 177 | SYNTHESIS AND CHARACTERIZATION OF BIODEGRADABLE GEMINI SURFACTANT | 13:10 - 13:10 |
| Presenter: khushi b | hatt (parul university, India) | |
| Board 180 | Reviewing applicability of Ethanol and Methanesulfonic Acid as Greener Alternatives in Liquid Chromatographic Method Development | 13:10 - 13:10 |
| Presenter: Imogen l | Howard (AstraZeneca, United Kingdom) | |
| Board 183 | Use of technological advances and new approaches to modernise commercial liquid chromatography methods | 13:10 - 13:10 |
| Presenter: Abi Herb | pert (AstraZeneca, United Kingdom) | |
| Board 186 | Comparing low pH additives for liquid chromatographic separations | 13:10 - 13:10 |
| Presenter: Bethany | Richards (AstraZeneca, United Kingdom) | |
| Board 189 | A comparison of HPLC methods for the Bioethanol fermentation process control | 13:10 - 13:10 |
| Presenter: Martin M | Ieyer (Shimadzu Europa GmbH, Germany) | |
| Board 192 | Chromatographic Analysis of Lithium-Ion Battery Electrolytes | 13:10 - 13:10 |
| Presenter: WALDEN | AAR WEBER (Shimadzu Europa GMBH, Germany) | |
| Board 195 | Ion chromatographic analysis of inorganic anions including silicate in insulating material | 13:10 - 13:10 |
| Presenter: Philipp J | ochems (Shimadzu Europa GmbH, Germany) | |
| Board 198 | Characterization of solute solvent-interactions in liquid chromatography: Search for reliable green HPLC solvents | 13:10 - 13:10 |
| Presenter: Marti Ro | ses (University of Barcelona, Spain) | |
| Board 201 | Sustainability in Extractables and Leachables: Implementing Green Chemistry Principles to a HR-LC-MS Screening Method | 13:10 - 13:10 |
| Presenter: Joel Hair | nes (Resolian Analytical Sciences, United Kingdom) | |
| Board 204 | Greening HPLC: Sustainable Practices to Reduce Environmental Impact | 13:10 - 13:10 |
| Presenter: Petra Lewits (Merck KGaA, Germany) | | |
| Board 207 | Sustainable Solvents in Thin-Layer Chromatography: Evaluation of Separation Performance and Environmental Compatibility | 13:10 - 13:10 |

Presenter: Petra Lewits (Merck KGaA, Germany) Bioprospecting of soil-borne microorganisms and chemical 13:10 - 13:10 Board 210 dereplication of their anti-microbial constituents with the aid of **UPLC-QTOF-MS and Molecular Networking approach** Presenter: Adivhaho Khwathisi (university of venda, South Africa) Board 213 Non-target detection of endocrine active compounds in wine and 13:10 - 13:10 botanicals Presenter: Gertrud Morlock (Justus Liebig University Giessen, Germany) Board 216 Genotoxicants in food products, cosmetics and perfumes 13:10 - 13:10 Presenter: Gertrud Morlock (Justus Liebig University Giessen, Germany) Board 219 Design of a Dual Ion Source coupled to HRMS to enhance the 13:10 - 13:10 chemical characterization of comprehensive 2D-LC of European Medicinal Plants Presenter: Marvin Häßler (Universität Duisburg Essen, Germany) Board 222 Evaluating the impact of migration test conditions on the 13:10 - 13:10 guantification of organic compounds for the approval of materials in contact with drinking water Presenter: Ana Isabel Penetra (Empresa Portuguesa das Águas Livres, S.A. (EPAL), Portugal) 13:10 - 13:10 Board 225 Utilization of Monodisperse Fully Porous Particles for Chromatographic Improvement in Mass Spectrometry based **Metabolomics for Disease Detection** Presenter: Ken Butchart (Fortis Technologies Ltd, United Kingdom) Board 228 Gas chromatography low energy-electron ionisation mass 13:10 - 13:10 spectrometry (GC-LE-EI-MS) in non-targeted analysis Presenter: Francesco Friedrich Russo (Bundesanstalt für Materialforschung und -prüfung (BAM), Germany) Fluorinated Additives used in LiBs - Forever Chemicals of 13:10 - 13:10 Board 231 **Tomorrow**? Presenter: Juliane Scholl (Bundesanstalt für Materialforschung und -prüfung (BAM), Germany) Board 234 **Overcoming Challenges in Metabolite Identification within DIA-**13:10 - 13:10 **Based SWATH-MS Studies** Presenter: Adrian Brun (University of Tuebingen, Germany) Board 237 GC-FID Platform method for determination of halogenated 13:10 - 13:10 aromatic regioisomers Presenter: Adrian Doggett (Bristol Myers Squibb, United Kingdom) **Comparative Analysis of Blood Microsampling Devices for Global** 13:10 - 13:10 Board 240 **Untargeted Metabolic Profiling** Presenter: Georgios Theodoridis (Aristotle University of Thessaloniki, Greece) Board 242 Development of fully automated liquid-liquid extraction gas 13:10 - 13:10 chromatography - electron ionization - Orbitrap mass spectrometry (LLE-GC-[EI]-Orbitrap MS) method for chemical exposure agent profiling Presenter: Kateřina Coufalíková (Masaryk University, Czech Republic) Reassessing Candidate Structures for NTS LC/HRMS² Features by Board 244 13:10 - 13:10 Predicting Retention Times with Unsupervised Learning Presenter: Gordian Sandberg (Stockholm University, Sweden) Board 246 Determination of Intracellular 2-Hydroxyglutarate Enantiomers 13:10 - 13:10 Using Two-Dimensional Liquid Chromatography Presenter: Makoto Tsunoda (University of Tokyo, Japan) Board 248 The effectiveness of immobilised artificial membrane and liposome 13:10 - 13:10 electrokinetic chromatography in predicting the pulmonary delivery of drugs in humans.

Presenter: Dorota Orzel (Edinburgh Napier University, United Kingdom)

| Careers Fair 13:10 - 14:10 | 3B |
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| CF2 - Engaging Chromatography careers: Imagine what you can do! | |
| Tutorial 13:40 - 14:40 | 1C |
| <i>T6</i> - Experience the power of Free, Web-based Computer Modeling Tools to Simulate Gas Chromatographic Separations. Having a GC in your laptop | |
| Instructor: Jaap de Zeeuw (CreaVisions, Netherlands) | |
| Oral 14:40 - 16:10 | 1A |
| 0.25 - Polymer Analysis | IA |
| <i>Chair</i> : Bo Zhang (Xiamen University, China) <i>Chair</i> : John Langley (University of Southampton, United Kingdom) | |
| LC METHODS TO STUDY POLYMER STRUCTURE | 14:40 - 15:10 |
| Presenter: Peter Schoenmakers (University of Amsterdam, Netherlands) | |
| Characterisation of biodegradable polymers and photodegradation products by pyrolysis multidimensional gas chromatography-mass spectrometry (Py-GCxGC-MS) | 15:10 - 15:30 |
| Presenter: Robyn Barrett (University of Plymouth, United Kingdom) | |
| Boosting the separation efficiency of Hydrodynamic Chromatography by shaping the cross-channel section | 15:30 - 15:50 |
| Presenter: Valentina Biagioni (Sapienza University of Rome, Italy) | |
| Employing capillary electrophoresis where chromatography fails: assessment of the charge heterogeneity of polymeric nanoparticles | 15:50 - 16:10 |
| Presenter: Govert Somsen (Vrije Universiteit Amsterdam, Netherlands) | |
| Oral | |
| 14:40 - 16:10 | 1B |
| 0.26 - Sustainability 2 | |
| Chair: Diane Turner (United Kingdom) Chair: Paul Ferguson (Astra Zeneca, United Kingdom) | |
| SFC-MS coupling: Current state and advances | 14:40 - 15:10 |
| Presenter: Lucie Nováková (Charles University, Faculty of Pharmacy, Czech Republic) | |
| Going For Green In Chromatographic Analysis - A Perspective From Within The Pharmaceutical Industry | 15:10 - 15:30 |
| Presenter: Matthew Osborne (AstraZeneca UK Operations, United Kingdom) | |
| Improving sustainability through modernisation of LC methods Presenter: Gemma Lo (VWR International Ltd, United Kingdom) | 15:30 - 15:50 |
| How transparency and awareness can make a change in your lab's sustainability journey | 15:50 - 16:10 |
| Presenter: Andreas Otto (Agilent Technologies, Germany) | |
| Oral | 10 |
| 14:40 - 16:10 0.27 - Novel Pharmaceutical Modalities | 1C |
| <i>Chair</i> : Deirdre Cabooter (KU Leuven, Belgium) <i>Chair</i> : Ludovicus Staelens (UCB Pharma, Belgium) | |
| Utilizing the on/off retention model of proteins to enhance | 14:40 - 15:10 |

| selectivity in liquid chromatography <i>Presenter</i> : Davy Guillarme (University of Geneva, Switzerland) | |
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| High-throughput HPLC analysis of lipids and related impurities with ELSD and MS detection for the quality control before and after the LNP formulation | 15:10 - 15:30 |
| Presenter: Mareike Prüfer (KNAUER Wissenschaftliche Geräte GmbH, Germany) | |
| Addressing the analytical gap in the analysis of non-biological complex drugs - a case study for the comprehensive chemical analysis of bituminosulfonate | 15:30 - 15:50 |
| Presenter: Thomas Gröger (Helmholtz Munich, Germany) | |
| Expanding the mRNA Characterization Toolbox using Size- exclusion Chromatography, Multi-angle Light Scattering Detection and Mass Photometry | 15:50 - 16:10 |
| Presenter: Jelle De Vos (RIC group, Belgium) | |
| Poster | |
| 14:40 - 16:10 P4 - Flash Posters | 3A |
| <i>Chair</i> : David Bell (ASKkprime LLC, United States) | |
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| Refreshments & Exhibition 16:10 - 16:50 | 2 |
| Refreshments & Exhibition | |
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| Plenary 16:50 - 17:25 | 1A |
| P-4 - Adventures with Mass Spectrometry and Joy | |
| <i>Chair</i> : Tim Sangster (United Kingdom) <i>Speaker</i> : Perdita Barran (The University of Manchester, United Kingdom) | |
| Adventures with Mass Spectrometry and Joy | 16:50 - 17:20 |
| Presenter: Perdita Barran (The University of Manchester, United Kingdom) | 10.00 17.20 |
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| Plenary 17:25 - 18:20 | 1A |
| P-5 - Unraveling the Threads: Exploring Degradation Pathways of Materials in Art | |
| <i>Chair</i> : Tony Taylor (Element Material Technologies, United Kingdom) <i>Speaker</i> : Maarten van Bommel (University of Amsterdam, Netherlands) | |
| Unraveling the Threads: Exploring Degradation Pathways of Materials in Art | 17:25 - 18:10 |
| Presenter: Maarten van Bommel (University of Amsterdam, Netherlands) | |
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Social Event 19:00 - 23:30 **Gala Dinner**

Liverpool Cathedral

Thursday, 10. October 2024

| Oral 08:30 - 10:00 | 1A |
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| 0.28 - Fundamentals 2 | |
| <i>Chair</i> : Adrian Clarke (Novartis, Switzerland) <i>Chair</i> : Torgny Fornstedt (Karlstad university, Sweden) | |
| Unraveling mass transfer phenomena of biomolecules in liquid chromatography | 08:30 - 09:00 |
| Presenter: Deirdre Cabooter (KU Leuven, Belgium) | |
| Reimagining the C_m and C_s -terms of van Deemter's equation Presenter: Bram Huygens (Vrije Universiteit Brussel, Belgium) | 09:00 - 09:20 |
| Optimal thermal control for temperature responsive LC columns <i>Presenter</i> : Ken Broeckhoven (Vrije Universiteit Brussel, Belgium) | 09:20 - 09:40 |
| Optimizing gradient profiles for liquid chromatography: a comparison of optimization algorithms and the influence of the chromatographic response function | 09:40 - 10:00 |
| Presenter: Gerben B. van Henten (University of Amsterdam, Netherlands) | |
| | |
| Oral 08:30 - 10:00 | 1B |
| 0.29 - Untargeted Analysis 2 | |
| Chair: Didier Thiébaut (ESPCI Paris - PSL, France) | |
| Chromatography in Metabolomics - Progress in High Throughput Metabotyping by LC-MS | 08:30 - 09:00 |
| Presenter: Ian Wilson (Imperial College London, United Kingdom) | |
| A click inverse electron-demand Diels-Alder reaction for assigning the carbon-carbon double bond regiochemistry in untargeted lipidomics | 09:00 - 09:20 |
| Presenter: Andrea Cerrato (Sapienza University of Rome, Italy) | |
| Modern chromatography for non-target screening applications | 09:20 - 09:40 |
| Presenter: Stefan Bieber (AFIN-TS GmbH, Germany) | |
| LC-MS-Based Global Metabolic Profiles of Alternative Blood Specimens Collected by Microsampling | 09:40 - 10:00 |
| Presenter: Daniel Marques De Silva (Aristotle University of Thessaloniki, Greece) | |
| | |
| Oral 08:30 - 10:00 | 1C |
| 0.30 - Food 2 | |
| <i>Chair</i> : Lewis Jones (Sensient Flavors & Extracts, United Kingdom) <i>Chair</i> : Michael Laemmerhofer (University of Tuebingen, Institute of Pharmaceutical Sciences, Germa | ny) |
| Challenges in chromatographic analyses of phytonutrients in food samples | 08:30 - 09:00 |
| Presenter: Irena Vovk (National Institute of Chemistry, Slovenia) | |
| Practices for improving the quantitative analysis of PFAS | 09:00 - 09:20 |
| Presenter: Stephan Buckenmaier (Agilent Technologies, Germany) | |
| Analysis of volatiles in food - untargeted analysis using GERSTEL Dynamic Headspace (DHS) and the LECO Pegasus® BT 4D TOF Presenter: Kathy Ridgway (Element Lab Solutions, United Kingdom) | 09:20 - 09:40 |
| Using head-space SPME and Hi-Sorb extraction techniques gas | 09:40 - 10:00 |

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chromatography mass spectrometry to assess the volatiles in mature Cheddar cheese Presenter: David Mannion (Teagasc Food Research Centre, Ireland) Refreshments & Exhibition 10:00 - 10:40 **Refreshments & Exhibition** Plenary 10:40 - 11:25 P-6 - Prioritizing and elucidating the structure of toxic chemicals based on complementary empirical analytical information from LC/HRMS Chair: Daniel Meston (Gustavus Adolphus College, United States) Speaker: Anneli Kruve (University of Stockholm, Sweden) Prioritizing and elucidating the structure of toxic chemicals based 10:40 - 11:25 on complementary empirical analytical information from LC/HRMS Presenter: Anneli Kruve (University of Stockholm, Sweden) Plenary

11:25 - 12:10 1A P-7 - Implementation of Liquid-Based Separation Science on Future Astrobiology Missions Chair: Diane Turner (United Kingdom) Speaker: Peter Willis (NASA, United States) **Implementation of Liquid-Based Separation Science on Future** 11:25 - 11:55 **Astrobiology Missions** Presenter: Peter Willis (NASA, United States) Refreshments & Exhibition 12:10 - 13:30 2 Lunch & Exhibition Awards 13:30 - 14:00 1A A-3 - Awards (Poster | Slam | Tube) Chair: Tony Edge (ISC 2024, United Kingdom) Chair: Simone Dimartino (The University of Edinburgh, United Kingdom) Chair: David Bell (ASKkprime LLC, United States) Plenary 14:00 - 14:30 1A P-8 - Potential of Chromatographic and Ion Mobility Separations in Lipidomic Analysis & ISC 2026 Chair: Jörg Kutter (Denmark) Speaker: Michal Holčapek (University of Pardubice, Czech Republic) Potential of Chromatographic and Ion Mobility Separations in 14:00 - 14:30 Lipidomic Analysis Presenter: Michal Holčapek (University of Pardubice, Czech Republic)

Plenary 14:30 - 15:00 1A P-9 - Monitoring emerging risks in food: new approaches based on electrophoretic techniques coupled to mass spectrometry & ISC 2028 Chair: Christina Vanhinsbergh (AstraZeneca, United Kingdom) Speaker: Ana García-Campaña (University of Granada, Spain)

Monitoring emerging risks in food: new approaches based on 14:30 - 15:00 electrophoretic techniques coupled to mass spectrometry

Presenter: Ana García-Campaña (University of Granada, Spain)

Plenary 15:00 - 15:30 **P-10 - Farewell Address** Chair: Tony Edge (ISC 2024, United Kingdom)

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