

AUGUST 17-23 MELBOURNE, AUSTRALIA





Short Courses Pre-Registered Attendance Only

Level 1 Foyer Saturday 17 August

Short Course Registration 8.00 AM - 5.00 PM

Location	Meeting Room 101	Meeting Room 102	Meeting Room 107	Meeting Room 108	Meeting Room 111	Meeting Room 112	Meeting Room 205	Meeting Room 206
9:00am - 5:00pm	LC-MS Practical Method Development and Validation Instructors: Robert Trengrove Curtin University Damien Callahan Deakin University	Proteomics and Post- Translational Modifications Instructors: Sean Humphrey Murdoch Children's Research Institute Shabaz Mohammed Rosalind Franklin Institute University of Oxford	Tandem Mass Spectrometry Instructors: Vicki Wysocki Ohio State University Ljiljana Paša-Tolić Pacific Northwest National Laboratory	Lipidomics Instructors: Stephen Blanksby Queensland University of Technology Anne Bendt National University of Singapore	Computational and Statistical Proteomic Analysis Instructors: David Tabb University Medical Centre Groningen Birgit Schilling University of California San Francisco (UCSF) Jordan Burton Buck Institute for Research on Aging	Imaging Mass Spectrometry Instructors: Martina Marchetti Deschmann Vienna University of Technology Shane Ellis University of Wollongong	Ion-Mobility Mass Spectrometry Instructors: Erin Baker University of North Carolina Valérie Gabelica University of Geneva	Glycomics Instructors: Yehia Mechref Texas Tech University Daniel Kolarich Griffith University

All Short Courses include:

Morning Tea 10:30am - 11:00am **Lunch** 12:30pm - 1:30pm Afternoon Tea 3:00pm - 3:30pm











Sunday 18 August AM Main Foyer 3

8.00 AM - 9.00 PM Conference Registration

Location	Meeting Room 101	Meeting Room 102	Meeting Room 107	Meeting Room 108	Meeting Room 111	Meeting Room 112	Meeting Room 205	Meeting Room 206
8:30am – 4:30pm	LC-MS Practical Method Development and Validation Instructors: Robert Trengrove Curtin University Damien Callahan Deakin University	Proteomics and Post- Translational Modifications Instructors: Sean Humphrey Murdoch Children's Research Institute Shabaz Mohammed Rosalind Franklin Institute University of Oxford	Tandem Mass Spectrometry Instructors: Vicki Wysocki Ohio State University Ljiljana Paša-Tolić Pacific Northwest National Laboratory	Lipidomics Instructors: Stephen Blanksby Queensland University of Technology Anne Bendt National University of Singapore	Computational and Statistical Proteomic Analysis Instructors: David Tabb University Medical Center Groningen Birgit Schilling University of California San Francisco (UCSF) Jordan Burton Buck Institute for Research on Aging	Imaging Mass Spectrometry Instructors: Martina Marchetti Deschmann Vienna University of Technology Shane Ellis University of Wollongong	Ion-Mobility Mass Spectrometry Instructors: Erin Baker University of North Carolina Valérie Gabelica University of Geneva	Glycomics Instructors: Yehia Mechref Texas Tech University Daniel Kolarich Griffith University

All Short Courses include:

Morning Tea 10:00am – 10:30am Lunch 12:00pm - 1:00pm Afternoon Tea 2:30pm - 3:00pm

Sunday 18 August PM	Plenary 3
Juliuay 10 August I W	i idilaliy o

4.30 PM - 5.00 PM Opening Ceremony

Welcome to County with Didgeridoo Performed by Wurundjeri Elder Ian Hunter

5.00 PM - 6.00 PM IMSC Plenary Lecture 1

Chaired by Tara Pukala

Membrane protein complexes – from recombinant complexes to regions of the brain

Professor Dame Carol Robinson University of Oxford United Kingdom

6.00 PM - 9.00 PM Welcome Reception

Exhibition Hall











Monday 19	August AM				
8.00 AM – 5.00 PM	Conference Registration				Main Foyer 3
8.00 AM – 9.30 AM	Chaired by Ron Heeren IMSF Thomson Medal Award Lectures Sponsored by the International Journal of Mass Spectrometry		8.00 AM - 8.45 AM Prof. Jennifer Brodbelt The University of Texas in Austin, USA	8.45 AM - 9.30 AM Prof. Richard (Rick) Yost University of Florida, USA	Plenary 3
9.30 AM - 10.00AM	Morning Tea				Exhibition Hall
9:40 AM - 9:55 AM	Innovation Stage Talk: SCIEX Introducing the new SCIEX Echo® MS+ syste	em: Combining high data quality and high-through	put sample analysis		Exhibition Hall Innovation Stage
Location	Plenary 3	Meeting Room 105	Meeting Room 106	Meeting Room 109	Meeting Room 110
10:00 AM - 12:00 PM Concurrent Sessions	Chaired by Anne Bendt: Lipidomics: Applications Session Sponsored by Avanti Polar Lipids	Chaired by Russell Grant: Clinical Chemistry	Chaired by Meng-Qiu Dong: Mass Spectrometry in Structural Biology A	Chaired by Trevor Ireland: Earth, Space, Geoscience and Atmospheric Chemistry A	Chaired by Isabelle Compagnon: Ion Chemistry, Reactions and Structure A
Keynote 10:00 AM 20 mins + 5 mins Q&A	Keynote: Professor Yu Xia Tsinghua University 114 - Empowering Structural Lipidomics with Isomer-Resolved Mass Spectrometry	Keynote: Associate Prof. Ronda Greaves Murdoch Children's Research Institute 762 - Mass spectrometry's contribution to neonatal endocrinology and metabolism – where to from here?	Keynote: Professor Michal Sharon Weizmann Institute 85 - Mass Spectrometry Analysis in Near- Physiological Conditions	Keynote: Professor Roger Summons Massachusetts Institute of Technology 596 - Carotenoid pigments as environmental proxies for ancient, low oxygen environments	Keynote: Professor Evan Bieske University of Melbourne 748 - Spectroscopic studies of bare and hydrogenated carbon cluster cations
Talk 1 10:25 AM 15 mins + 4 mins Q&A	Michal Holčapek 347 - CLIG interlaboratory study on the harmonization of lipid concentrations in human plasma	Stefani Thomas 590 - Adopting fundamental principles from the clinical laboratory to accelerate the clinical translation of targeted mass spectrometry- based proteomic assays	Cameron Fairweather 426 RAMP it up! Exploring conformational dynamics of the amylin receptors using HDX-MS	Hyeon-Woo Lee 56 -Study on the Determination Methods of the Natural Radionuclides (U-238, Th-232) in Building Materials and Consumer Products Using ED-XRF and ICP-MS	Minsu Kim 491 - Research on size dependent molecular behavior of ESI-generated charged droplets by using X-ray scattering
Talk 2 10:44 AM 15 mins + 4 mins Q&A	Anthony Don 396 - Quantifying brain lipid synthesis and turnover through deuterium labelling of endogenous brain lipids in vivo	Priscilla Yeung 92 - Clonality Determination by Detecting Unmodified Monoclonal Serum Free Light Chains Using On-Probe Extraction Coupled with Liquid Chromatography-High-Resolution Mass Spectrometry	Tara Pukala 597 - Extending the molecular view of snake venoms to higher order structure	Samir Damare 500 - Mass spectrometry as a tool for understanding biological processes in Oceans	Xianglei Kong 594 - Generation and Identification of Free Radical Cations Using a UV/IR Double-Beam Laser System Combined with an FT ICR Mass Spectrometer
Talk 3 11:03 AM 15 mins + 4 mins Q&A	Amy Liang 452 - Automated retention time calibration for complex, targeted reverse phase chromatography based lipidomics	Keziah Liebenberg 569 - Alterations in glutaminolysis detected by direct mass spectrometry techniques enable diagnosis and molecular subtyping of breast and ovarian cancers	Weijing Liu 266 - Automated molecular glues screening using native mass spectrometry	Clemens Walther 589 - Nuclear forensics on single micrometer sized particles: recent developments of secondary neutral mass spectrometry for ultra-trace isotope analysis	Shibdas Banerjee 708 - Stabilizing Reactive Intermediates in Aqueous Microdroplets
Talk 4 11:22 AM 15 mins + 4 mins Q&A	Stephanie Cologna 168 - Probing fatty acid alterations linked to cholesterol dysregulation in Niemann-Pick Type C Disease	Dan Lane 87 - The Validation Processor: the development of a novel tool that that automates, standardises, and accelerates mass spectrometric assay validation	Duong Bui 50 - Deciphering Mechanisms and Thermodynamics of Protein Assembly using native mass spectrometry	Oliver Jones 447 - Combining contaminants of emerging concern with environmental isotopes to distinguish wastewater and agricultural impacts on groundwater systems	Peter O'Connor 514 Advances in Two-Dimensional Mass Spectrometry
Talk 5 11:41 AM 15 mins + 4 mins Q&A	Rachel Pryce 176 - Lipidomic Alterations in the Retina of a mouse model of Zellweger Spectrum Disorder Investigated by Mass Spectrometry Imaging	Ruben Luo 12 - Microprobe-Capture In-Emitter Elution Coupled with Mass Spectrometry for Structural Elucidation and Clinical Testing of β2-Transferrin	Ryan Julian 76 - Isomerization of tau provides mechanistic insight into the underlying causes of Alzheimer's disease	Robert Kirkby 634 - Using an automated soil incubation system coupled to online IRMS to resolve N2 and N2O emission pathways from agricultural soils	Adam Trevitt 667 - Laser photodissociation and ion reactivity of selected protonation-site isomers









β2-Transferrin



Monday 19	August PM		
12:00PM - 3:00PM (Li Lunch Break	ght food and tea break style catering provided)		Exhibition Hall
12.00 PM - 1.00 PM	Meeting Room 105	Meeting Room 106	Meeting Room 110
Sponsored Lunch Seminars	Bruker 4D-Proteomics & Glycomics seminar Hosted by Bruker	Advancements in Metabolomics and Lipidomics with Multi-Reflecting TOF and Cyclic IMS Hosted by Waters	Monitoring the sources of toxic compounds: Real-time analysis of VOC and inorganic compounds by SIFT-MS Hosted by Syft
1:15 PM – 1:30PM	Innovation Stage Talk: IonOpticks Improved proteome coverage and reproducibility in large-scale analyses using t	ne new Aurora Rapid 8 cm columns	
1:30 PM – 1:45 PM	Innovation Stage Talk: Thermo Fisher Scientific The latest solutions for water quality and environmental safety		
1:45 PM – 2:00 PM	Innovation Stage Talk: Shimadzu Shimadzu Mass Spectrometry - The Untold Story		Exhibition Hall Innovation Stage
2:00 PM – 2:15 PM	Innovation Stage Talk: Waters Corporation Unleashing the power of High-Resolution DESI imaging		
2:15 PM – 2:30 PM	Innovation Stage Talk: Tecan Simplified and automated sample preparation for plasma proteomics		
1:00 PM - 3:00 PM	Poster Session: Monday Posters		Exhibition Hall
2:30 PM – 3:00 PM	Afternoon Tea		Exhibition Hall











Location	Plenary 3	Meeting Room 105	Meeting Room 106	Meeting Room 109	Meeting Room 110
3:00 PM - 5:00 PM Concurrent Sessions	Chaired by Nicola Gray: Metabolomics A	Chaired by Helen Cooper: Proteomics: Top-Down	Chaired by Subhra Chakraborty: Food, Nutrition and Agriculture A	Chaired by Nick Manicke: Forensics, Sports Doping, Homeland Security A	Chaired by Han Bin Oh: Ion Activation Methods
Keynote 3:00 PM 20 mins + 5 mins Q&A	Keynote: Dr Anne K. Bendt National University of Singapore 112 - Clinical Translation of Lipidomics – a case study	Keynote: Professor Ying Ge University of Wisconsin 755 - New Strategies to Address the Challenges in Top-down Proteomics	Keynote: Dr Melanie Downs University of Nebraska-Lincoln 761 - Food Proteomics- A Luxury or a Need for Improving Food Safety and Quality?	Keynote: Professor Chris Gill Vancouver Island University 237 - Harm Reduction Drug Checking by Quantitative Paper Spray Mass Spectrometry: Where are we Now?	Keynote: Professor Shabaz Mohammad University of Oxford 313 - Top down and bottom up proteomics on an Orbitrap Exploris 480 - Omnitrap instrument equipped with ExD, UVPD and IRMPD
Talk 1 3:25 PM 15 mins + 4 mins Q&A	Breanna Dixon 48 - Uncovering the resistance phenotype of carbapenemase-producing Enterobacteriaceae (CPE) using metabolomics	Jack Bennett 559 - Uncovering hidden protein modifications with native top-down mass spectrometry	Genc Haljiti 61 - The Proteomes that Feed the World: Unveiling Plant Proteomics and Peptidomics	Maiken Ueland 122 - When disaster strikes, locating victims using electronic nose technology	Catherine Costello 671 - ExD fragmentation and multistage MSn facilitate high-confidence characterization of intact glycopeptides and glycolipids
Talk 2 3:44 PM 15 mins + 4 mins Q&A	Prabhu Rangabashyam 438 - Elucidating novel fatty acid structures in vernix caseosa by combining ultraviolet photodissociation and ozone-induced dissociation mass spectrometry	Athanasios Smyrnakis 624 - A new adaptation of the Omnitrap platform integrated into a trapped ion mobility time-of-flight mass spectrometer	Michelle Colgrave 606 - Proteomics application to deliver healthy and sustainable foods of the future	Xianming Liu 387 - Rapid Chromatography-Free Quantitative Screening of Synthetic Cannabinoids in Urine Using a Novel DART-TripleQuad MS	Rachel Ogorzalek Loo 246 - The Big Break Up—Understanding How a Subunit or Polypeptide Abandons its Noncovalent Complex in Native Top-Down MS
Talk 3 4:03 PM 15 mins + 4 mins Q&A	Sk Ramiz Islam 205 - Identification of novel glucose- independent, and reversible metabolic pathways associated with anti-proliferative effect of metformin in HepG2 cells	Tatiana Samgina 144 - EThcD method as a unique tool for top- down de novo sequencing of intact amphibian skin peptides	Peter Hoffmann 495 - Diving Deep into the Faba Bean Proteome	Louise O'Grady 25 - Identifying Psychedelics in Australian Acacia Species: Wattle We Do?	Li Ding 169 - Implementation of Electron Capture Dissociation in an RF Linear Ion Trap without Assistance of Magnetic Field
Talk 4 4:22 PM 15 mins + 4 mins Q&A	Agustinus Thomas Soerianto 445 - Utilizing high resolution mass spectrometry and cheminformatic approaches to delineate the full metabolic capability of the parasitic protist Leishmania Mexicana	Christian Neusüß 52 - Characterization of proteoforms of intact proteins by 2-dimensional CE-MS techniques	Larissa Buedenbender 512 - chelOMICS for a holistic understanding of siderophore-mediated host-pathogen interactions in aquaculture infections	Simon Ovenden 392 - The identification of VX chemical attribution signatures from four different synthetic methods	Oliver Hale 351 - Declustering protein complexes by infrared photoactivation for in situ native mass spectrometry
Talk 5 4:41 PM 15 mins + 4 mins Q&A	Patrik Španěl 86 - Gas Phase Reactions of O ⁻ , OH ⁻ , O ₂ ⁻ and NO ₂ ⁻ with Volatile Fatty Acids for Quantitative SIFT-MS Breath Analyses	Muhammad Zenaidee 369 - Ion mobility curated internal fragments enhance on-line top-down proteomics experiments	Omar Mendoza-Porras 453 - Understanding Thermal Stress in Salmon Tissues Using Proteomics and Metabolomics	Lisa Scharrenbroch 95 - High-Resolution and Isotope Ratio Mass Spectrometry based profiling of Ricinus communis - A forensic approach	Hidenori Takahashi 434 - Ion Fragmentation for Detailed Lipid Structural Analysis using Atomic Hydrogen/Oxygen Irradiation (HAD/OAD)
Evening Worksho	OS, Sponsored by CSL				

5:30 PM - 7:30 PM Meeting Room 105

Light refreshments provided from 5:00 PM – 5:30 PM IMSF Focus Group: MS Imaging

Organisers: Martina Marchetti-Deschmann (Vienna University of Technology) Samuele Zoratto (Medical University of Vienna)

Meeting Room 106

FeMS Workshop: Empowering Women Mass Spectrometrists in a Traditionally Male-Dominated Workplace

Organisers: Denise Tran (University of Sydney)

Meeting Room 110

IMSC Spectroscopy-MS Workshop Uniting Mass spectrometry and laser spectroscopy

Organisers: Caroline Dessent (University of York) Sarah Wilson (University of York)

7.00 PM - 11.00 PM

IMSF Affiliates Dinner, Invitation-only event

MELBOURNE





Old Melbourne Gaol





Plenary 3

Tuesday 20 August AM

8.00 AM - 5:00 PM Conference Registration Main Foyer 3

8.30 AM - 9.30 AM

Chaired by W. Alexander Donald

Plenary - Mass Spectrometry in Research of Chemical Reactions

Professor Jana Roithová, Radboud University Netherlands

9.30 AM - 10.00AM	Morning Tea				Exhibition Hall
Location	Plenary 3	Meeting Room 105	Meeting Room 106	Meeting Room 109	Meeting Room 110
10:00 AM - 12:00 PM Concurrent Sessions	Chaired by Stefani Thomas: Clinical 'omics	Chaired by Michal Sharon: Mass Spectrometry in Structural Biology B	Chaired by Mark Condina: Data Science in Mass Spectrometry A	Chaired by Yu Bai: Ionization Methods	Chaired by Emma Schymanski: Environmental Mass Spectrometry A Sponsored by ACS Publications
Keynote 10:00 AM 20 mins + 5 mins Q&A	Keynote: Professor Thomas Kislinger University of Toronto 613 - Prostate Cancer Reshapes the Secreted and Extracellular Vesicle Urinary Proteomes	Keynote: Professor Lisa Jones University of California San Diego 752 - In-Cell Protein Footprinting Coupled with Mass Spectrometry for Structural Biology Across the Proteome	Keynote: Professor Paul Pigram La Trobe University 692 - Complexity to clarity: detecting, identifying and analysing complex materials with machine learning	Keynote: Professor Garry Corthals University of Amsterdam 572 - Electroless ionisation and now possibilities with Ambient: simple, speedy and soft ionisation methods.	Keynote: Professor Kevin Thomas University of Queensland 763 - Advancements and Challenges in Mass Spectrometric Techniques for Comprehensive Environmental Analysis
Talk 1 10:25 AM 15 mins + 4 mins Q&A	Nicola Gray 496 - Signatures of future bronchiectasis risk in children with cystic fibrosis via lipid profiling of bronchoalveolar lavage fluid	Adalet Memetimin 582 - Improved identification of cross-linked peptide pairs by focused accurate inclusion mass screening (fAIMS)	Alexander Aksenov 55 - Illuminating the Dark Matter of Metabolomics Through Molecular Community Networking	Léa Ledoux 355 - Bacterioscore in 2D/3D MS imaging: pioneering in vivo cancer microbiome study and its link with diagnosis and patient survival	Alicia Macan Schönleben 236 - Occurrence and Patterns of Emerging Organic Chemicals in Vegan and Vegetarian Products
Talk 2 10:44 AM 15 mins + 4 mins Q&A	Oana Marian 399 - A Low Volume Exercise Intervention Remodels the Type-2 Diabetic Plasma Lipidome, Reducing Circulating Toxic Deoxyceramides	T. W. Dominic Chan 203 - Millimeter Water-in-Oil Droplet as an Alternative Back Exchange Prevention Strategy for Hydrogen/Deuterium Exchange Mass Spectrometry of Peptide/Protein	Mengbo Li 27 - Missingness-informed protein quantification and differential expression analysis	Yoichi Otsuka 34 - Mass spectrometry imaging of a single HeLa cell by tapping-mode scanning probe electrospray ionization	Michaela Lerch 282 - Mass Spectrometric Profiling of Antarctic Sea Water for Expedited Chemical Regulation
Talk 3 11:03 AM 15 mins + 4 mins Q&A	Anna Emilia Hoffman 71 - Interplay between sphingolipid metabolism and the endocannabinoid system in schizophrenia: Insights into biomarker candidacy	Joshua Sharp 28 - Radical Protein Footprinting in Stabilized Whole Blood	Yuji Sekiguchi 290- Genomically predicted protein mass database (GPMsDB) for rapid and broad- spectrum identification of bacterial and archaeal isolates by mass spectrometry	Jae-Chul Pyun 123 - Laser desorption/ionization (LDI) mass spectrometry based on nanomaterials for biomedical applications	Drew Szabo 319 - Prioritisation, Identification, and Quantification of Emerging Contaminants in Recycled Textiles Using Non-Targeted and Suspect Screening Workflows by LC-ESI-HRMS
Talk 4 11:22 AM 15 mins + 4 mins Q&A	Thomas Meikle 455 - Development and clinical translation of high-throughput lipidomic profiling for the assessment of individual cardiometabolic risk	Kuang-Ting Kuo 275 - Integration of Structural Proteomics and Computational Simulation for Elucidating Structural-Activity Relationships of Novel PPARγ Inverse Agonists in Metabolic Disease	Piotr Radziński 245 - Contrastive learning encoding algorithm of MS images for memory management and segmentation enhancement	Stanislav Pekov 525 - Mass spectrometry profiling is a useful method for analyzing autopsy samples, taking into account their unique preservation requirements	Yik-Sze Lau 412 - The Coupling of a High-efficiency Aerosol Collector with Electrospray Ionisation/Orbitrap Mass Spectrometry for the Real-time Chemical Characterisation of Aerosol Particles
Talk 5 11:41 AM 15 mins	Elizabeth Want 531 - Exploring novel metabolic changes in	Terese Eisgruber 233 - Investigating Modification-Specific	Toan Phung 349 - CHRONICLE, A Family of Tools and	David Borts 91 - A Coated Blade Spray Mass Spectrometry	Quan Cheng 242 - Improving Cytotoxicity Study with Single Cell

Softwares for Mass Spectrometry-based

Proteomics Data Processing, Analysis,

Visualization, and Exploration



Workflow for Rapid Toxicology General Unknown

Screening



Microchip-MALDI-MS



Lipid Profiling of Microalgae and Bacterial Cells by



tissue injury: possible new treatment routes

Interactions of Linker Histone H1 by Mass

Spectrometry-based Proteomics

+ 4 mins Q&A



Tuesday 20	Tuesday 20 August PM							
12:00PM - 3:00PM (Light Lunch Break	ght food and tea break style catering provided)		Exhibition Hall					
12.00 PM - 1.00 PM	Meeting Room 105	Meeting Room 106	Meeting Room 110					
Sponsored Lunch Seminars	Bruker MALDI Imaging & Metabolomics seminar Hosted by Bruker	The Cyclic Revolution for Accelerated Protein Structure, Folding and Dynamics Research Hosted by Waters	What's holding you back? See the latest in blazingly fast quantitative analysis from SCIEX Hosted by SCIEX					
1:15 PM – 1:30 PM	Innovation Stage Talk: IonOpticks A high-level overview of how replacing your chromatography with IonOpticks or	columns can unlock the true potential of your mass spectrometer						
1:30 PM – 1:45 PM	Innovation Stage Talk: Thermo Fisher Scientific Novel Technologies to translate discoveries into breakthroughs		Exhibition Hall Innovation Stage					
1:45 PM – 2:00 PM	Innovation Stage Talk: Agilent Instrument Intelligence and Digital Lab Transformation: Empowering Data Man	agement.						
2:00 PM – 2:15 PM	Innovation Stage Talk: Waters Corporation Unveiling the Potential of Multi-Reflecting Time-of-Flight (MRT) Mass Spectrom	netry						
1:00 PM - 3:00 PM	Poster Session: Tuesday Posters		Exhibition Hall					
2:30 PM – 3:00 PM	Afternoon Tea		Exhibition Hall					











Location	Plenary 3	Meeting Room 105	Meeting Room 106	Meeting Room 109	Meeting Room 110
3:00 PM - 5:00 PM Concurrent Sessions	Chaired by Elizabeth Want: Metabolomics B	Chaired by Qingsong Lin: Proteomics: Method Development	Chaired by Zhongping Yao: Food, Nutrition and Agriculture B	Chaired by Valérie Gabelica: Ion Mobility A	Chaired by Christopher Hansen: Ion Chemistry, Reactions and Structure B
Keynote 3:00 PM 20 mins + 5 mins Q&A	Keynote: Professor David Wishart University of Alberta 747 - Automated, Massive-Scale, Quantitative Metabolomics Using Mass Spectrometry	Keynote: Professor Ruijun Tian Southern University of Science and Technology 182 - Exploring functional proteome in spatially resolved and high-throughput fashion	Keynote: Professor Bruno Fedrizzi The University of Auckland 764 - Sulfur compounds in wine: the good, the bad and the unknown	Keynote: Professor Perdita Barran The University of Manchester 759 - Visualizing Molecules: The role of Ion Mobility Mass Spectrometry where m/z selection is not enough	Keynote: Professor Isabelle Compagnon University of Lyon, France 767 -Interrogating structure and dynamics of molecular ions from the IR to the XUV domain for fundamental Physical-Chemistry and Analytical applications
Talk 1 3:25 PM 15 mins + 4 mins Q&A	Vinzenz Hofferek 478 - Use of anion chromatography with modified chemical suppression for broad coverage HRMS metabolomics studies on the parasitic protists	Christopher Overall 413 - Multiplex MS Profiling of SARS-CoV-2 3CLpro/Main Protease Cleavage Kinetics for Ranking Interactors as Substrates and Designing Optimal Peptide Assay Formats	Oscar Nuñez 35 - High-throughput LC-LRMS and FIA-LRMS fingerprinting and polyphenolic profiling for the geographical characterization and authentication of honey	Alex Shvartsburg 568 - Novel Differential Ion Mobility Approaches Based on the Macromolecular Dipole Alignment	Chi Kit (Andy) Siu 706 - Impact of Solvent Reorganization on Disulfide Bond Cleavage in Hydrated Electron Clusters
Talk 2 3:44 PM 15 mins + 4 mins Q&A	Darren Creek 456 - Combining metabolite standards cocktails with IDEOM v24 to enable routine semi-targeted metabolomics	Haoyun Fang 448 - Deciphering subcellular proteomic niches of mouse heart using label-free DIA-MS and machine learning	Yada Nolvachai 165 - Enhancing food safety and authenticity: GC-MS analysis of adulterated edible oils and early detection of foodborne pathogens	Tim Causon 545 - The role of unsaturation in defining the 3-dimensional structure of ionised lipids in the gas phase	Frantisek Turecek 89 - Nitrile Imines as Photochemical Crosslinkers in Gas-Phase Peptide Ions: Reactivity and Action Spectroscopy
Talk 3 4:03 PM 15 mins + 4 mins Q&A	Per Andrén 681 - Spatial metabolomics reveals region- specific alterations induced by parkinsonism and L-DOPA-induced dyskinesia	Bente Siebels 343 - Spatial resolved mass spectrometric proteomics analysis facilitated by infrared laser-based sampling of infected murine bladders	Jessica Prenni 573 - The Periodic Table of Food Initiative	Olivia Rusli 192 - Understanding the Coordinative Selectivity of Glyphosate and AMPA Toward Divalent Metals by IM-MS and IM-IRMPD-MS	Han Bin Oh 166 - A combination of genetic code expansion and free radical-initiated peptide sequencing mass spectrometry
Talk 4 4:22 PM 15 mins + 4 mins Q&A	Fan Yang 16 - Untargeted mass spectrometry-based metabolomics workflow optimization for chronic and autoimmune chronic pancreatitis biomarker discovery	Kermit Murray 563 - Laser Ablation Mass Spectrometry of Native Proteins	Takumi Fujiki 484 - Varietal differences in distribution of soluble carbohydrates and organic acids in strawberry fruits visualized using quantitative MALDI-TOF MS imaging	Yimin Wang 298 - Simultaneous Polyphenol Profiling and Quantification with LC-TIMS-TOF-MS: An Application to Different Apple Matrices	Nicole Rijs 190 - Directing Molecular Trams on the Picoscale! Perturbing Structural Outcomes of Self-Assembly Monitored by Ion Mobility Mass Spectrometry
Talk 5 4:41 PM 15 mins + 4 mins Q&A	Soumen Kanti Manna 714 - Effect of wearing face mask on cardiopulmonary parameters and salivary metabolome	Colleen Maxwell 13 - The Edge Effect in High-Throughput Proteomics: A Cautionary Tale	Arundhati Singh 447 - Mass spectrometry to unveil the foliar distribution of fluxapyroxad within fungicide seed-treated barley	Jackie Mosely 565 - Structures for ion mobility resolved radical cations of benzocaine, and consequences for dissociation.	Caroline Dessent 574 - Mapping the Photodegradation Products of Antibiotics Using Laser Interfaced Mass Spectrometry
Evening Worksho	ps, Sponsored by CSL				

5:30 PM - 7:30 PM

Light refreshments

5:00 PM - 5:30 PM

provided from

Meeting Room 105

IMSF Focus Group: Native MS

Integrating native and structural MS methods to solve open questions in

structural/mechanistic biology and medicine

Organisers: Anton Calabrese (University of Leeds)

Meeting Room 106

IMSC Sustainability Workshop

Sustainability in Mass Spectrometry: An International Perspective

Organisers: Perdita Barran (University of Manchester), Gordon Kearney (Shimadzu Research Laboratory, Europe), Chris Bowen (Shimadzu Scientific Australasia)

Meeting Room 110

IMSC Paper Writing Workshop Write Right: How to Improve Your Scientific Writing

Organisers: John Langley (University of Southampton)











Wednesday	Wednesday 21 August AM						
8.00 AM - 5:00 PM	Conference Registration	Conference Registration Main Foy					
8.30 AM - 9.30 AM	Chaired by Vicki Wysocki IMSF Curt Brunnee and Jochen Franzen Award Lectures Curt Brunnee Award Sponsored by Thermo Fisher Scientific Jochen Franzen Award Sponsored by Bruker		8.30 AM – 9:00 AM IMSF Curt Brunnée Award Plenary Lecture Dr. Jens Soltwisch University of Munster, Germany	9.00 AM - 9:30 AM IMSF Jochen Franzen Award Plenary Lecture Dr. Ljiljana Pasá-Tolic Pacific Northwest National Laboratory, USA	Plenary 3		
9.30 AM - 10.00AM	Morning Tea				Exhibition Hall		
9:40 AM - 9:55 AM	Innovation Stage Talk: Thermo Fi High-throughput quantitative proteomics wo	sher Scientific orkflow solutions using novel magnetic beads and T	MTpro 32plex reagents		Exhibition Hall Innovation Stage		
Location	Plenary 3	Meeting Room 105	Meeting Room 106	Meeting Room 109	Meeting Room 110		
10:00 AM - 12:00 PM Concurrent Sessions	Chaired by Ron Heeran: Imaging Mass Spectrometry: Applications	Chaired by Matthias Pelzing: Biopharmaceuticals and Vaccines	Chaired by Dezerae Cox: Protein-Interactions	Chaired by Mario Thevis: Forensics, Sports Doping, Homeland Security B	Chaired by Philippe Schmitt-Kopplin: High Throughput Sampling, Screening and Analysis		
Keynote 10:00 AM 20 mins + 5 mins Q&A	Keynote: Professor Kristine Glunde Johns Hopkins Medical Institutions 665 - MALDI Mass Spectrometry Imaging to Investigate Inflammatory Pathways: Tissue Mapping of Aspirin Metabolites and Prostaglandins in Breast Cancer	Keynote: Dr Da Ren Biotherapeutics Solutions 766 - Trends of MS Applications in Biopharmaceutical Industry	Keynote: Professor Lan Huang University of California 765 - Developing MS-cleavable Cross-linking Mass Spectrometry for Profiling Multimeric Interactions of Cellular Networks	Keynote: Professor Adam Cawley Racing Analytical Services Ltd 772 - Catching the cheatsexplaining the innocent: Forensic perspectives for sports antidoping.	Keynote: Professor Yasushi Ishihama Kyoto University 688 - Challenges toward ultrahigh-speed proteomics systems with high-sensitivity and high-depth		
Talk 1 10:25 AM 15 mins + 4 mins Q&A	Stefania Lakab 311 - Molecular Snapshots of a Colon Cancer 3D Cell Culture Model	Daniele Fabris 340 - A Mid-Down Strategy for the Characterization of Non-Coding and mRNAs	Ashleigh Dale 633 - Membrane and flagellar enrichment increase the depth of large-scale bacterial interactomics studies using ion mobility and cross-linking mass spectrometry (XL-MS)	Cailtin Jenkins 10 - Chemical Analysis of Electronic Cigarettes in Australian Schools	Laura Sanchez 68 - Trapped ion mobility spectrometry for high- throughput directed evolution screening of α- ketoglutarate dependent dioxygenases		
Talk 2 10:44 AM 15 mins + 4 mins Q&A	Esther Cheow 547 - Spatial Multi Omics Strategy to Advance Target Biology and Biomarker Discovery for Pulmonary Fibrosis	Philipp Bittner 208 - In-depth Characterization of DNA- Encoded Chemical Libraries using Native Mass Spectrometry: The Impact of DNA-tags on Binding Affinities	Gavin Reid 196 - A Co-Fractionation Mass Spectrometry- Based Method for Investigating Disease Associated Alterations in Lipid-Protein Interactomes	Madysen Elbourne 543 - The indirect detection of dopaminergic manipulation in equine urine via an optimised routine and metabolomic-based LC-HRMS method	Tin Cham Mak 197 - Discovery of inhibitor against Mycobacterium tuberculosis Leucyl-tRNA synthetase (LeuRS) via Mass Spectrometry-based screening		
Talk 3 11:03 AM 15 mins + 4 mins Q&A	Charles Schurman 358 - Spatial Proteomics via Extracellular Matrix Imaging of Bone Fracture Callus Reveals Delayed Transition of Osteochondral Remodelling with Age	Devin Makey 235 - Cyclic Ion Mobility-Mass Spectrometry for Rapid Protein Structure and Stability Assessment During the Development of Next- Generation Antibody Therapeutics	Venita Sitahal 363 - Elucidating the Structural Dynamics of Binding Interactions in Regulator of G-Protein Signaling-1 (RGS1) using Hydrogen Deuterium Exchange Mass Spectrometry (HDX-MS)	Kin-Sing Wong 47 - Screening and confirmation of recombinant human follistatin in equine plasma for doping control purposes	Rachel Smith 229 - Development of automated high-throughput mass spectrometry methods for biotechnology and biomedical targets using desorption electrospray ionisation		
Talk 4 11:22 AM 15 mins + 4 mins Q&A	Jayden Mckinnon 260 - Unveiling Single Cell Small Metabolite Distributions via an Oversampling approach enabled by MALDI-2-MSI	Laura van der Vloet 540 - Visualizing antisense oligonucleotides and its biological impact in brain tissue using a multiomics mass spectrometry imaging approach	Adam Cahill 322 - Development of photoactivatable lysine reactive crosslinking reagents	Renee Webster 364 - Characterisation of stable isotopes in small molecules for chemical attribution signature determination using gas chromatography-high resolution accurate mass spectrometry	Xiaobo Tian 45 - Differentiating specific and non-specific protein-metabolite interactions using gradient open port probe electrospray ionization mass spectrometry		
Talk 5 11:41 AM 15 mins + 4 mins Q&A	Haruki Uchino 672 - Sex-dependent changes in renal spatial lipidome revealed by MALDI-2-TIMS-MS imaging	Janik Seidel 255 - An optimized DIA-MS workflow for HCP quantification in bioreactors to assess relationship in between processing conditions and critical quality attributes	Debasmita Ghosh 337 - Mass Shifts Induction by Protein-Protein Interactions: A Novel Direct-MS Method	Bruce Pui-nam 645 - Gene doping control analysis of human erythropoietin transgene in equine plasma by PCR-liquid chromatography high resolution tandem mass spectrometry	Chengyi Xie 429 - Cellular-level resolution DESI-MS imaging		











Wednesday	Wednesday 21 August PM						
12:00PM - 3:00PM (Li Lunch Break	ight food and tea break style catering provided)		Exhibition Hall				
12.00 PM - 1.00 PM	Meeting Room 105	Meeting Room 106	Meeting Room 110				
Sponsored Lunch Seminars	Realize the promise of translational omics Hosted by Thermo Fisher Scientific	Novel Ion Fragmentation in Mass Spectrometry for Detailed Lipid Structural Analysis via Atomic Hydrogen/Oxygen Irradiation Hosted by Shimadzu	Standardizing and scaling automated workflows for cutting edge proteomics Hosted by Evosep				
1:15 PM – 1:30 PM	Innovation Stage Talk: Merck Diamond in the rough: Supel™ Carbon, a porous graphitic carbon LC colum	n					
1:30 PM – 1:45 PM	Innovation Stage Talk: Syft Monitoring sources of toxic chemicals: Real-time analysis of VOC and inorga	nic compounds by SIFT-MS					
1:45 PM – 2:00 PM	Innovation Stage Talk: Agilent Instrument Intelligence that Drives Performance, Innovation that Drives Break	athroughs	Exhibition Hall Innovation Stage				
2:00 PM – 2:15 PM	Innovation Stage Talk: Trajan Scientific and Medical Trajan CHRONECT Workflow Solutions: A sample prep journey - upcoming l	aunch, PFAS in soil.					
2:15 PM – 2:30 PM	Innovation Stage Talk: Bruker EVOQ DART TQ+: "Chrom free" High Throughput Quantitation. Increased Si	mplicty, Robustness and Sustainability, while lowering your mass spec analysis costs					
1:00 PM - 3:00 PM	Poster Session: Wednesday Posters		Exhibition Hall				
2:30 PM – 3:00 PM	Afternoon Tea		Exhibition Hall				











Location	Plenary 3	Meeting Room 105	Meeting Room 106	Meeting Room 109	Meeting Room 110	
3:00 PM - 5:00 PM Concurrent Sessions	Chaired by Yu Xia: Lipidomics: Technology	Chaired by Mark Molloy: Proteomics: Quantitative	Chair TBA Polymers and Nanomaterials	Chaired by Myeong Hee Moon: Hyphenation, Separations, Lab-on-a- Chip	Chaired by Tim Causon: Ion Mobility B	
Keynote 3:00 PM 20 mins + 5 mins Q&A	Keynote: Professor Makoto Arita Keio University 673 - Lipidome signatures associated with aging and the host-microbiome interaction	Keynote: Professor Jesper Velgaard Olsen University of Copenhagen 700 - High-throughput and scalable single-cell proteomics with narrow-window data- independent acquisition mass spectrometry	Keynote: Professor Xiaopeng Li Shenzhen University 226 - Multidimensional Mass Spectrometry Assisted Supramolecular Chemistry	Keynote: Professor Jin-Ming Lin Tsinghua University 750 - Microfluidic Chip Combined with Mass Spectrometer for Single Cell Analysis	Keynote: Professor Dr Kevin Pagel Freie Universität Berlin 751 - Mass Spectrometry-Based Techniques to Elucidate the Sugar Code	
Talk 1 3:25 PM 15 mins + 4 mins Q&A	Takeshi Bamba 126 - Solid phase extraction and LC/MS/MS methods for comprehensive targeted profiling of bioactive lipids	Nathan Burke 248 - Phosphoproteomic analysis of human sperm capacitation reveals novel, druggable kinases offering new non-hormonal male contraceptive targets	Scott McLuckey 629 - Ion/Ion Reactions for Complex Mixture Analysis: Precursor Resolution via Ion Z-state Manipulation (PRIZM)	Hartmut Schlüter 232 - Towards original compositions of proteoforms in tissues via soft laser ablation	Felicia Hansen 497 - Direct observation of phospholipase A activity via isomer-resolved mass spectrometry	
Talk 2 3:44 PM 15 mins + 4 mins Q&A	Seung Hee Shin 72 - Optimization of skin sampling method for lipidomic analysis by nanoflow nUHPLC-ESI-MS/MS	Molly Talbot 617 - Reversibly oxidised cysteine post- translational modifications in diabetic cardiomyopathy following antioxidant N- propionylglycine, identified using quantitative mass spectrometry	Takaya Satoh 128 - High Mass Resolution Mass Spectrometry for Assessing Polyethylene terephthalate Degradation: A Comprehensive Study using MALDI-TOFMS and GC-TOFMS	Andrei Fedorov 67 - MicroTAS (Total Analysis System) for ESI-MS Dynamic Monitoring of Extracellular Proteome and Intracellular Metabolome in Cell and Gene Therapy Biomanufacturing	Bram van de Put 325 - Towards De Novo Sequencing of Oligosaccharides Using Cyclic Ion Mobility Spectrometry	
Talk 3 4:03 PM 15 mins + 4 mins Q&A	Gérard Hopfgartner 367 - Enhanced Mass Spectrometry Workflows using ESI and APPI with Multi lon Activation Methods for Characterization of Lipids in Plasma Samples	Subra Chakraborty 712 - Climate Change & Food Security: Organellar Crosstalk and Post-translational Control Shaping Plant Immunity	Callan Littlejohn 554 - Tools for Polymer Identification using Ultrahigh Resolution Mass Spectrometry	Nick Manicke 365 - On-Paper Electrophoretic Stacking and Separations Coupled to Paper Spray Mass Spectrometry	David Marshall 281 - Separation and characterisation of isomeric coordination complexes with high-resolution ion mobility mass spectrometry	
Talk 4 4:22 PM 15 mins + 4 mins Q&A	Huong Giang Vo 336 - Comprehensive analysis of structural glycosphingolipids in clinical samples using trapped ion mobility spectrometry mass spectrometry	Scott Peterman 518 - Novel Hybrid Nominal Mass Instrument Enables Rapid Development of Large-Scale Targeted Plasma Proteomics Assays	Cassandra Rauert 548 - Quantitative analysis of micro- and nano- plastics in environmental samples by pyrolysis gas chromatography mass spectrometry	John Langley 26 - Sustainable fuels and the need for different hyphenated solutions	Madelien Wooding 74 - The Story of a Sorptive Sampler: From Fairy Circles to the Detection of Tuberculosis-Associated Compounds using GC×GC-TOFMS and UPLC- IMS-HRMS	
Talk 5 4:41 PM 15 mins + 4 mins Q&A	Huaqi Su 54 - Multi-omics characterization of highly enriched human plasma extracellular vesicles	Li Zhong 11 - Mass Spectrometry Proteomics Reveals PLEK as a Biomarker for the Early Phase of Severe COVID-19	Laura Puente-De La Cruz 379 - Micro and nanoplastic migration from plastic breast milk storage bags and storage bottles	Russell Grant 562 - High Throughput Quantitative Amino Acid Analysis for The Masses	Patricia Skowronek 312 - Optimal trapped ion mobility workflows coupled with dia-PASEF and synchro-PASEF for high throughput and sensitivity	
Evening Workshops, Sponsored by CSL						
5:30 PM – 7:30 PM	Meeting Room 105		Meeting Room 106			
Light refreshments provided from 5:00 PM – 5:30 PM	IMSF Focus Group: MS Instrumentation The journey from instrument concept, prototype development, to market		Navigating career pathways t	IMSC Career Workshop Navigating career pathways for the mass spectrometrist		
3.00 FIVI - 3.30 FIVI	Organisers: Shane Ellis (University of Wollo	ngong)	Organisers: Jackie Mosely (University of York)			











Thursday 22 August AM 8.00 AM - 5:00 PM Conference Registration Main Foyer 3 8.30 AM - 9.30 AM **Chaired by Melanie White** Plenary – Advancing Personalized Proteomics by DIA-MS: From Large-Scale Profile to Single-Cell Resolution Plenary 3 Professor Yu-ju Chen, Academia Sinica Taiwan 9.30 AM - 10.00AM Morning Tea **Exhibition Hall** Innovation Stage Talk: SCIEX 9:40 AM - 9:55 AM **Exhibition Hall Innovation Stage** Redefine bioanalysis with enhanced robustness on the 7500+ system Location Plenary 3 Meeting Room 105 Meeting Room 106 Meeting Room 109 Meeting Room 110 10:00 AM - 12:00 PM Chaired by Ben Parker: **Chaired by Peter Hoffmann: Chaired by Sutin Kingtong: Chaired by Shibdas Banerjee: Chaired by Nicole Rijs:** Ion Chemistry, Reactions and Concurrent PTMs and Cross Talk, Cellular Cancer and Immunology Environmental Mass Spectrometry B Chemistry at the Solution/Gas Sessions Structure C Signalling and Systems Biology Phase Interface **Keynote: Keynote:** Keynote: Keynote: **Keynote:** Professor Rena A. S. Robinson Professor Bernd Wollscheid Dr Jean Armengaud Professor Xinxing Zhang Zheng Ouyang Swiss Federal Institute of Technology Tsinghua University Vanderbilt University Keynote 10:00 AM 685 - Pushing the Limits of Quantitative 756 - Light-mediated discovery of surfaceome 753 - Monitoring the environment by mass 758 - Investigation of Microdroplet Chemistry with 654 - Mass spectrometry technologies for analysis at + 5 mins Q&A Proshibteomics to Advance Alzheimer's nanoscale organization spectrometry of sentinel animals and microbiomes Mass Spectrometry high structural specificity Research Talk 1 10:25 AM Marco Jochem **Arash Zarrine-Afsar** Simran Kaur Jongcheol Seo **Howard Ma** 359 - Investigating Protein Conformations Using 15 mins 444 - Analysing Non-Proteinaceous 14 - 10-second Classification of Lung Cancer 265 - From Tyres to Tides: Investigating Tyre 224 - Photoelectron Spectroscopy of Some Copper Subtypes by Picosecond Infrared Laser Mass Additive Chemicals in the Moreton Bay + 4 mins Q&A Ubiquitination by Mass Spectrometry Protein-lodine Interactions Borohydride and Acetylide Anions Spectrometry: Evaluation of Diagnostic Power Catchment, Queensland Across Various Tissue Models Talk 2 10:44 AM **Guangcan Shao** Michelle Hill Hang-kin Kong Lukas Benzenberg Salomé Poyer 503 - Mapping the Modification Sites of 611 - Ovarian cancer serum glycoform 96 - Identifying Morphologically Similar Toxic 29 - Microsolvation of charged residues prevents 507 - Copper-based mass spectrometry and ion 15 mins Microalgal Strains by Proteomic Approaches + 4 mins Q&A Ubiquitin-like Proteins (UBLs) biomarker panel discovery to lectin magnetic backbone collapse and aids in retention of nativemobility to resolve isomeric barriers of array-mass spec (LeMBA-MS) clinical assay like structural features after desolvation phosphatidylcholines Talk 3 11:03 AM Sigi Li Zhu Yang Valérie Gabelica **Oscar Lloyd Williams** 80 - Machine Learning-Driven Identification of 15 mins 189 - Development of highly sensitive mass 468 - Inducible energy source shift alleviates geo-307 - To unfold, or not to unfold, that is the 462 - Of Cryptophanes and Cations: Unravelling + 4 mins Q&A spectrometry methods for phosphorylated sex and KRAS specific features for Ferroptosisspecific PM2.5 components causing imbalances question. On the preservation of solution phase structural changes induced by encapsulation or Targeted Drug Repurposing in Colorectal protein analysis in energy metabolism structures upon electrospray ionization complexation Cancer Talk 4 11:22 AM Lin Zhu Paula Nissen Siobhan Peters Sangwon Cha Daiki Asakawa 130 - Real-world PM2.5 Exposure Causes 637 - Derivatization of Single Cell Saccharides 416 - The Internal Energy of Ions Produced by ESI 15 mins 120 - Quantitative mass spectrometric 460 - Bioaccumulation of the environmental + 4 mins Q&A Liver Metabolic Reprogramming via and Analysis by Induced ESI MS Depends on the Density of Molecules in Electrodes at proteome analysis of colorectal carcinoma liver neurotoxin BMAA in mussels exposed to Oxidation of Specific Cysteine Residues on cyanobacteria First Vacuum Stage metastasis reveals distinct phenotypes MDH2 and CPT2 in Mice associated with specific signalling pathways and survival Takemichi Nakamura

Albert Lebedev

Chlorination

140 - Formation of Specific Disinfection By-

products in Water treatment by Aqueous



Qianhao Min

Spectrometry

652 - Monitoring the Dynamic Fate of Interfacial

Electrochemical Intermediates by Ambient Mass



Anabaenopeptins



441 - Collision-Induced Isomerization of Cyclic

Peptide Ions Probed by Energy-Resolved Ion Mobility/Tandem Mass Spectrometry: A Case of



44 - Proteome profiling of macrophage

reprogramming upon dead cell clearance

Nicole Brace

680 - A Study of Altered B Cell Responses to

PAMP-Activation in Schizophrenia

Maria Tanzer

Talk 5 11:41 AM

+ 4 mins Q&A



Thursday 22	2 August PM										
12:00PM – 3:00PM	Lunch Break (Light food and tea break	style catering provided)			Exhibition Hall						
12.00 PM - 1.00 PM Sponsored Lunch Seminars	Meeting Room 105 Expanding experimental flexibility Hosted by Thermo Fisher Scientific	Expanding experimental flexibility from multi-omics to biopharma analysis									
1:00 PM – 3:00 PM	Poster Session: Thursday Posters	6			Exhibition Hall						
2:15 PM – 2:30 PM	Innovation Stage Talk: Bruker, Intr	Innovation Stage Talk: Bruker, Introducing Bruker's Novel MALDI_TOF Platform for IHC Solutions and General-Purpose Applications Exhibition Hall Innovation Stage									
2:30 PM – 3:00 PM	Afternoon Tea				Exhibition Hall						
Location	Plenary 3	Meeting Room 105	Meeting Room 106	Meeting Room 109	Meeting Room 110						
3:00 PM - 5:00 PM Concurrent Sessions	Chaired by Rena Robinson: Neurodegeneration and Aging	Chaired by Catherine Costello: Glycomics and Glycoproteomics	Chaired by Lingjun Li: Single Cell Mass Spectrometry	Chaired by Léa Ledoux: Imaging Mass Spectrometry: Development/Technology	Chaired by Paul Pigram: Data Science in Mass Spectrometry B						
Keynote 3:00 PM 20 mins + 5 mins Q&A	Keynote: Dr Birgit Schilling University of California San Francisco 631 - Cellular senescence and aging in healthy individuals – proteomic analysis of lung and ovary tissues across the age range	Keynote: Professor Nicki Packer Macquarie University 754 - Analysis of the CD52 glycopeptide shows activity is dependent upon both its N- and O- linked glycan structures	Keynote: Professor Yu Bai Peking University 228 - Single Cell Multi-omics Mass Spectrometry Analysis: Methods and Applications	Keynote: Professor Helen Cooper University of Birmingham 138 - Native ambient mass spectrometry imaging of proteins and their complexes	Keynote: Associate Professor Magnus Palmblad Leiden University Medical Center 651 - Data Science in Mass Spectrometry: Fascinating Past, Exciting Present and Promising Future						
Talk 1 3:25 PM 15 mins + 4 mins Q&A	Martina Marchetti-Deschmann 481 - Spatially resolved analyses reveals significant changes of the N-glycome and transcriptome in aging skin	Xue Sun 616 -Large-Scale pattern analysis of N- and O- glycoproteomics using ion-mobility assisted mass spectrometry	Andrew Ewing 346 - Correlation of Cellular Measurements of Partial Exocytosis and Nano Vesicular Subcompartments Using NanoSIMS	Mengze Sun 161 - Mass Spectrometry Imaging of LPLAT8 Knockout Mouse Retina by Tapping-mode Scanning Probe Electrospray Ionization	Emma Palm 283 - Identifying dead-end pesticide transformation products of potential concern						
Talk 2 3:44 PM 15 mins + 4 mins Q&A	Gaurav Chopra 591 - Artificial Intelligent Agents for Automating Deep Lipidomics Workflows to Investigate Alzheimer's Disease and Aging- Related Lipid Droplets	Ronghu Wu 118 - Effective Mass Spectrometry-Based Methods for Comprehensive and Site-Specific Analysis of Surface Glycoproteins and Their Dynamics	David Bishop 70 - Quantitative, Multiplexed, Immuno-Mass Spectrometry Imaging Of The Dystrophin- Glycoprotein Complex	Jianing Wang 127 - Subcellular Resolution MALDI Mass Spectrometry Imaging of Lipids	Sarah Bamford 277 - Self-Organizing Maps with Relational Perspective Mapping (SOM-RPM) Applied to Time-of- Flight Secondary Ion Mass Spectrometry (ToF-SIMS) Data						
Talk 3 4:03 PM 15 mins + 4 mins Q&A	Michael Gotsbacher 636 - Biodistribution of a Copper-Delivering Agent in Mouse Brains	Abarna Murugan 674 - Phyloglycomics: Mapping the serum glycome in vertebrates to understand the evolution of vertebrate glycosylation	Reuben Young 401 - Exploring different post-ionisation techniques coupled with MALDI-MSI for single cell lipidomics of neurons and astrocytes	Alice Ly 212 - Weave: A software package for integrated spatial multi omics visualization and data analysis	Mark Condina 397 - Streamlining proteomics investigations for drug discovery using Mass Dynamics 2.0's Dataset Service						
Talk 4 4:22 PM 15 mins + 4 mins Q&A	Emily Byrd 324 - Understanding ow ALS-associated mutations alter the structure and phase separation propensity of the TDP-43 C- terminal domain using structural mass spectrometry	Mark Larance 22 - Unbiased analysis of the human platelet proteome identifies a new form of domain-specific O-fucosylation generated by FUT10 and FUT11	Mariachiara Squillaci 366 - Single cell proteomics (SCP) analysis to study crosstalk dynamics of signaling complexes in extrinsic and intrinsic cell death pathways	Shane Ellis 383 - A MALDI-2-MSI source with transmission and reflective mode capabilities that exploits laminar gas flows of novel intermediate pressure ion guides	Natan Horacek 113 - An automatic and unsupervised artificial peak detection approach for preprocessing GC-MS and GC×GC-MS metabolomic data						
Talk 5 4:41 PM 15 mins + 4 mins Q&A	Emma Schymanski 173 - Can Small Molecules Provide Clues on Disease Progression in Cerebrospinal Fluid from Mild Cognitive Impairment and Alzheimer's Disease Patients?	Kristian Tkalec 83 - Protein Aggregation Capture enabled carboxylate group derivatisation allows proteome scale peptide supercharging for Oglycoproteomic analysis	Nhu Phan 370 - Targeted molecular imaging with correlative NanoSIMS: Applications to study protein organization and turnover in neuronal cells	Jan Preisler 41 - Digital Mass Spectrometry Imaging using Nanoparticle Tags	Ove Johan Ragnar Gustafsson 384 - Proteomics Lab: streamlining computational proteomics for life scientists						
6.30 PM – 9:30 PM	Conference Dinner				Showtime Events Centre						











Plenary 3

Friday 23 August AM

8.00 AM - 5:00 PM Conference Registration Main Foyer 3

8.45 AM - 9.30 AM

Chaired by Gavin Reid

Distinguished Keynote Speaker - Inventions and Innovation do not occur in a vacuum

Koichi Tanaka, Shimadzu Corporation, Japan Meeting Room 106 Meeting Room 109 Meeting Room 110 Location Plenary 3 Meeting Room 105 9:30 AM - 11:00 AM **Chaired by Ute Roessner: Chaired by Branka Miljevic: Chaired by Justin Benesch: Chaired by Scott McLuckey** Chaired by Zheng Ouyang: Plant 'omics Earth, Space, Geoscience and Recent Advances in Mass Ion Chemistry, Reactions and Structure Concurrent Mass Analysers Sessions Atmospheric Chemistry B Spectrometry, and Beyond **Keynote: Keynote: Keynote: Keynote: Keynote:** Professor Evan Williams Dr Joachim Kopka Professor Haofei Zhang Professor Yujia Qing Dr Vaughan Langford Keynote 9:30 AM University of California, Berkeley Max-Planck-Institute of Molecular Plant University of California, Riverside University of Oxford Syft Technologies Limited 20 mins 19 - SIFT-MS: Ion-Molecule Chemistry Coupled with + 5 mins Q&A 276 - Charge Detection Mass Physiology (MPIMP) 741 - Understanding organic peroxide formation 760 - Towards nanopore proteomics: Singlemolecule analysis of post-translational Spectrometry: Mass and Conformation of 697 - GCMS-based 13C-positional during multiphase oxidation of organic aerosols Mass Spectrometry for Real-World Applications Really Big Things isotopologue analysis for investigating using mass spectrometry modifications within full-length proteins photosynthetic carbon assimilation fluxes Talk 1 9:55 AM **Hamish Stewart River Pachulicz** Ralf Zimmermann Niklas Geue **Berwyck Poad** 62 - Behind the Curtain: The Long 42 - Acid-catalysed esterification of anthocyanin 335 - Application of a Novel, Field-Deployable 98 - Visualizing Conformational Dynamics of 284 - Hyphenation of chromatography with ion-ion 15 mins Development of Next Generation HRAM + 4 mins Q&A glucosyl units in Brassica oleracea Single Particle Mass Spectrometer for Detection Biomacromolecules by Coupling Ion Mobility Mass charge inversion chemistries for the resolution and Analyzers of Toxicants and Climate-Relevant Parameters in Spectrometry to Electron Microscopy structure elucidation of branched-chain lipids Wildfire Aerosols Talk 2 10:14 AM Yi-Sheng Wang Melanie Odenkirk Philippe Schmitt-Kopplin **Lars Gruber** Haiyang Li 15 mins 745 - Critical factors determining the 546 - Juicy Insights: A Standardized, 100 -Molecular atlas of meteorite soluble organic 213 - Guiding imaging mass spectrometry by 341 - Miniature Continuous Atmospheric Pressure + 4 mins Q&A performance of linear time-of-flight mass Nontargeted Metabolomics Approach to matter using non-targeted ultra)high resolution mid-infrared vibrational spectroscopy for deep Interfaced Ion Trap Mass Spectrometer with Radial Facilitate the Comparison of Apples to Apples spectrometry - theoretical study and organic spectroscopy reveals hydrothermal history lipidomic profiling Electric Field Driven Collision-Induced Dissociation Across the Globe experimental validation of asteroid Ryugu samples and its applications

Talk 3 10:33 AM 15 mins

15 mins + 4 mins Q&A **Taous Abar**

20 - Analysis of VOCs in aqueous solutions using the coupling of an oven with a mobile FT-ICR-MS associated to chemical ionization

Laurent Bigler

297 - Structure elucidation of iron chelators produced by microorganisms

Trevor Ireland

431 - Highs and Lows in Analysis of Water with SIMS

Yanis Zirem

350 - Spatial multi-omics informed by SVD k-means++ clustering and statistical assessment of heterogeneity: Advance dry proteomic guided by lipids MALDI MSI

Hua Lei

267 - Photoionization/photoionization-induced chemical ionization mass spectrometry for operando characterization of catalytic reaction processes: instrumentation and applications

11:00 AM – 11:30 AM Morning Tea

Exhibition Hall











Location	Plenary 3	Meeting Room 105	Meeting Room 106	Meeting Room 109	Meeting Room 110
11:30 AM - 1:00 PM Concurrent Sessions	Chaired by Laura Sanchez: Toxicology and Metabolism	Chaired by Hiroshi Hinou: Biosimilars, Biobetters and Glycoengineering	Chaired by Paul Haynes: Cultural Heritage, Conservation and Archaeology	Chaired by Miaomiao Liu: JMS Awardee Session Sponsored by Journal of Mass Spectrometry	Chaired by Ljiljana Paša-Tolić High Resolution Mass Spectrometry
Keynote 11:30 AM 20 mins + 5 mins Q&A Talk 1 11:55 AM	Keynote: Zongwei Cai Hong Kong Baptist University 769 - Mass spectrometry determination of microbiota-mediated biotransformation of triclosan for investigation of colitis induction Maya Cameron	Keynote: Dr Alain Beck Laboratoires Pierre Fabre 129 - Combination of Mass Spectrometry instruments and workflows for complex antibody-based products characterization Magdelena Biesaga	Keynote: Dr G. Asher Newsome Smithsonian Museum Conservation Institute 46 - Application and Accessibility Improvements for Real-time, Minimally-invasive, Non-proximate Sampling of Conserved Art Objects Teodora Raicu	11:30 Isaure Sergent 483 - Combining Ion Mobility with Molecular Modeling to Rationalize the MS/MS Behavior of Biradical Oligomer Anions 15 mins talk + 3 mins questions 11:48 Brett Burns	Keynote: Professor Vicki Wysocki Ohio State University 749 - Electrons and/or a surface: characterization of capsids, glycoproteins, and nucleoproteins Lee Gethings
15 mins + 4 mins Q&A	393 - Comprehensive analysis of Endocrine Disrupting Chemicals using High Resolution Mass Spectrometry	37 - Identification of surfactants with antifungal activity produced by antarctic bacteria Bacillus subitlis strain	506 - MeV SIMS Approach for Identifying Colorants in Artists' Modern Inks	669 - Optimizing the low-lying excited states and photodissociation of Norrish type I photoinitiator Acetophenone using group I cations in the gasphase 15 mins talk + 3 mins questions	216 - Comprehensive discovery lipidomic workflow which utilizes a prototype, multi-reflecting ToF with integrated informatics, providing highly confident lipid characterization and quantification
Talk 2 12:14 PM 15 mins + 4 mins Q&A	Denise Tran 592 - Method Development for High- throughput Quantification of PFAS in Plasma for Correlation to the Omics Profile of Patients with Cardiovascular Disease	Troy Wood 230 - Quality Assurance Using Mass Spectrometry to Analyze Structural Fidelity of Monoclonal Antibodies in HIV-1 Therapeutics	Paul Haynes 288 - Proteomic analysis of bone collagen from a collection of worked bone artefacts from Pyrmont, Australia	12:06 Vimanda Chow 253 Probing the molecular mechanism of Constitutive Androstane Receptor (CAR) transactivation by Hydrogen-Deuterium Exchange	Jordan Partington 459 - Comparison of high-resolution mass spectrometry acquisition methods for the simultaneous quantification and identification of per- and polyfluoroalkyl substances (PFAS)
Talk 3 12:33 PM 15 mins + 4 mins Q&A	Mark Sartain 446 - Empowering Drug Metabolite Identification with a Novel Software Workflow	Adam Pruška 345 - Temperature-Controlled Mass Spectrometry as a Tool for Structural Characterization of Enzymes and Antibodies		Mass Spectrometry 15 mins talk + 3 mins questions 12:24 Hiu Lok Ngan 8 - Application of Imaging Mass Spectrometry-Based Metabolomics to Early Liver Cancer Diagnosis 15 mins talk + 3 mins questions 12:42 PM Zuzana Vaňková 300 - Continuous Comprehensive Four-Dimensional Lipidomics Approach for Analysis of Human Plasma 15 mins talk + 3 mins questions	Benedict Gannon 560 - Effects of sustainable rejuvenator on aged British roads compared with commercial bitumen binder rejuvenator by FT-ICR MS

2:00 PM - 3:00 PM

Chaired by Sarah Hancock

Closing Plenary

A smart vision for a sustainable future: SMaRT technologies and MICROfactoriesTM creating sustainable materials and products from waste Professor Veena Sahajwalla, University of New South Wales

Plenary 3

3.00 PM - 4.00 PM

Closing Ceremony, Award Presentations and Presentation of IMSC2026

Plenary 3











Poster Sessions – Monday	/ 19 August		
Theme	Presenter	Poster Title	Location
Cancer and Immunology	Adam Rainczuk	(150) Dia-PASEF proteomic analysis of HNSCC tumor and stroma enriched sections from FFPE samples prepared with laser capture microdissection	1
Cancer and Immunology	Brandon Bills	(252) Confident transformation site localization of PROTAC drug metabolites facilitated by multi-stage fragmentation LC-HRAM-MS	2
Cancer and Immunology	David Bergen	(578) A Semi-Targeted Orbitrap Tribrid Method for Simultaneous Quantification and Discovery of Immunopeptides	3
Cancer and Immunology	David Harman	(683) Development of a better treatment for glioblastoma	4
Cancer and Immunology	Erin Sykes	(423) Quantitation of breast cancer biomarkers by selected reaction monitoring	6
Cancer and Immunology	Erwin Tanuwidjaya	(291) Exploring the potential of soluble HLA through immunopeptidomics	7
Cancer and Immunology	Jennifer Koh	(420) Use of mass spectrometry to determine the effects of storage temperature and time on FFPE tissue sections	8
Cancer and Immunology	Lilian Heil	(581) Enhancing Immunopeptide Profiling with Orbitrap Astral Mass Spectrometer for Unbiased Discovery of Neoantigens	9
Cancer and Immunology	Rangika Perera	(487) Resolving isomeric bis(monoacylglycero)phosphates and phosphatidylglycerols by hydrophilic-interaction liquid chromatography coupled with cyclic ion-mobility mass spectrometry	10
Cancer and Immunology	Rifaldy Fajar	(623) Predictive Modeling of Tumor Microenvironment Diversity Using Mass Spectrometry Imaging and Deep Learning: Advancing Immunotherapeutic Strategies in Oncology	11
Cancer and Immunology	Ruth Fiestas Cueto	(549) The proteomic and immunopeptidomic landscape of non-small cell lung cancer	12
Cancer and Immunology	Terry Lim	(247) Paediatric Oncology Revolution: Unleashing Precision Medicine through Phosphoproteomics	13
Cancer and Immunology	Tobias Feilen	(244) Proteomic characterisation of clear cell renal cell carcinoma in patients with Von Hippel-Lindau Syndrome	14
Earth, Space, Geoscience and Atmospheric Chemistry	Chika Kuribayashi	(502) Variation of 234U/238U isotope ratios in groundwater under contrasting redox environments measured by mass spectrometry	15
Earth, Space, Geoscience and Atmospheric Chemistry	Kazuto Isamoto	(486) Development of a simple and rapid simultaneous determination methods for Cr(III) and Cr(VI) by HPLC-ICP-MS	16
Earth, Space, Geoscience and Atmospheric Chemistry	Shalini Sarkar	(479) Mass Spectrometry as a tool for analysing marine microalgal toxins from Indian waters	17
Earth, Space, Geoscience and Atmospheric Chemistry	Takahiro Morimoto	(305) Optimization of Sr*-O2 reaction process for direct 87Sr/86Sr analysis by ICP-MS/MS without chemical separation	18
Earth, Space, Geoscience and Atmospheric Chemistry	Wan-Ping (Sunny) Hu	(727) Direct air analysis capability at Central Analytical Research Facility Queensland University of Technology	19
Environmental Mass Spectrometry	Angus Hibberd	(622) Analysis of PFAS and other environmental contaminants in soil and oat plants using high resolution GC/MS	20
Environmental Mass Spectrometry	Anthony Kearsley	(175) Automated analysis pipeline for identification of untargeted GC-EI-MS spectra	21
Environmental Mass Spectrometry	Atul Bhatnagar	(632) Deep scan screening of remediated water & biological samples for PFAS	22
Environmental Mass Spectrometry	Eonjin Hwang	(264) Analysis of photodegradation products of polyethylene terephthalate in seawater using high resolution mass spectrometry	23
Environmental Mass Spectrometry	Harrison Stevens	(695) Highly sensitive tandem mass spectrometry detection for high resolution HILIC separation of biomass burning markers	24
Environmental Mass Spectrometry	Hee-Gyoo Kang	(194) Proteomic changes based on health implications of abandoned mine local residents	25
Environmental Mass Spectrometry	Honglin Chen	(403) Investigating matrix interference from analysing nanoplastics and microplastics in spleen samples by Pyrolysis-Gas Chromatography-Mass Spectrometry	26
Environmental Mass Spectrometry	Jinglong Li	(719) National Reconnaissance of Antimicrobial Occurrence in Australian Wastewater and their Socioeconomic Correlates	27
Environmental Mass Spectrometry	John Lam	(735) Field-deployable compact LC-MS for determination of per, and polyfluoroalkyl substances (PFAS)	28
Environmental Mass Spectrometry	Jordan Campbell	(609) Distribution and metabolism of fungicides in plant tissue	29
Environmental Mass Spectrometry	Juhyeon Kim	(520) Simultaneous analysis of 12 nbfrs in foods by GC-EI-MS/MS	30











Theme	Presenter	Poster Title	Location
Environmental Mass Spectrometry	Mahya Bahmani	(156) Proteomic Profiling of Mango: Unveiling Bioactive Peptides in Pulp and Peel	31
Environmental Mass Spectrometry	Matt Lynn	(243) Rapid detection by SIFT-MS of toxic inorganic and organic compounds relevant to worker safety in the shipping industry	32
Environmental Mass Spectrometry	Nikita Lotlikar	(332) Protein variations in a marine-derived Aspergillus terreus in response to salinity and chromium concentrations as deduced by peptide mass fingerprinting	33
Environmental Mass Spectrometry	Paul Johnson	(101) Advancing Environmental Protection Through Rapid Volatile PFAS Detection and Real-Time Mobile, Fenceline, and Ambient Air Monitoring	34
Environmental Mass Spectrometry	Pei-Hsin Chou	(508) Discovery of emerging endocrine disrupting chemicals in surface waters using effect-directed analysis	35
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Clinical 'omics	Kevin Yang	(362) Discovering Hidden Depths: High-Throughput Proteomics Study for Enhanced Biomarker Discovery	6
Clinical 'omics	Shawn Carlson	(676) MALDI-IHC/ISH: The Next Generation of High-plex Multiomic Imaging for Spatial Biology	10
Clinical 'omics	Matthew O'Rourke	(273) Integrated proteomics and single cell RNAseq reveal that steroid resistance in severe asthma is driven by immune cell "Stasis"	7
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