

FINAL SCHEDULE

Tuesday 8th September

New Dock Hall *Denotes presenter has self-declared as early career

TIME	ORAL TRACK A
12:00	EARLY CAREER SCIENTIST SOCIAL (THE CANARY BAR)
13:00	ARRIVAL, REGISTRATION, REFRESHMENTS & POSTER SET UP
14:30	WELCOME FROM BMSS CHAIR OPENING PLENARY Livia Eberlin, Baylor College of Medicine Guiding medical decisions with mass spectrometry technologies Chair: Andrew Ray <i>BMSS Chair</i>
	AMBIENT IONISATION MS (O1) Chair: Carver (Kei) Wong <i>University of Nottingham</i>
15:45	Keynote: G Asher Newsome <i>Smithsonian Museum Conservation Institute</i> Non-proximate desorption photoionization for minimally-invasive cultural heritage analysis: new methods and applications
16:15	Jim Reynolds <i>Loughborough University</i> Rapid kinetic measurements of pharmaceutical slurry reactions using atmospheric pressure solids analysis probe-mass spectrometry (ASAP-MS)
16:35	Sopika Toumazi <i>Imperial College London</i> A novel DESI-MS platform for direct metabolomic profiling of nasal swabs for phenotyping asthma*
16:55	John Walsby-Tickle <i>University of Oxford</i> Using ASAP mass spectrometry to detect diethylene glycol and ethylene glycol contamination in liquid medicines
17:30	CAREERS WORKSHOP (PEARL SUITE), EXHIBITION & POSTER BROWSING
19:00	END OF ACADEMIC DAY
19:00	DAI GAMES SYMPOSIUM & NETWORKING SUPPER (ROYAL ARMOURIES HALL)

THE 46th BMSS ANNUAL MEETING

★ LEEDS ★ 08-10 SEP 2026 ★



Tuesday 8th September AM
Bury Theatre

TIME	ORAL TRACK B
12:00	EARLY CAREER SCIENTIST SOCIAL (THE CANARY BAR)
13:00	ARRIVAL, REGISTRATION, REFRESHMENTS & POSTER SET UP
14:30	WELCOME FROM BMSS CHAIR OPENING PLENARY Livia Eberlin, Baylor College of Medicine Guiding medical decisions with mass spectrometry technologies NEW DOCK HALL
ADVANCES IN INSTRUMENTATION & DATA ANALYSIS (O2) Chair: Mike Morris <i>BMSS Vice Chair</i>	
15:45	Keynote: Anneli Kruve <i>Stockholm University</i> Data analysis to reduce the burden in complex sample analysis with non-target HRMS
16:15	Brícia Parreiras <i>University of York</i> UV photodissociation as a complementary approach for molecular characterisation*
16:35	Amy Moore & Crisitan Laphorn <i>AstraZeneca</i> Next generation nitrosamine analysis: integrating mass spectrometry, automation and AI from development to commercial*
16:55	Amar Rai <i>Imperial College London</i> Benchmarking mass spectrometry structural elucidation tools: assessing the UFM on baxdrostat and zibotentan*
17:30	CAREERS WORKSHOP (PEARL SUITE), EXHIBITION & POSTER BROWSING
19:00	END OF ACADEMIC DAY
19:00	DAI GAMES SYMPOSIUM & NETWORKING SUPPER (ROYAL ARMOURIES HALL)

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Tuesday 8th September PM
Pearl Suite

TIME	ORAL TRACK C
12:00	EARLY CAREER SCIENTIST SOCIAL (THE CANARY BAR)
13:00	ARRIVAL, REGISTRATION, REFRESHMENTS & POSTER SET UP
14:30	WELCOME FROM BMSS CHAIR OPENING PLENARY Livia Eberlin, Baylor College of Medicine Guiding medical decisions with mass spectrometry technologies NEW DOCK HALL
	PROTEOMICS (O3) In partnership with the British Society for Proteome Research Chair: Kish Adoni <i>University College London</i> 15:45 Keynote: Jyoti Choudhary <i>Institute for Cancer Research</i> Mass spectrometry-based discovery of the non-canonical 'dark' proteome 16:15 James Tarrant <i>Imperial College London</i> De novo sequencing of long multi-charged peptides via mass-mass spectrometry enabled by Orbitrap Astral MS* 16:35 Farah Salim <i>University of Leicester</i> Anticoagulant selection shapes the extracellular vesicle and plasma proteome profiles* 16:55 Emma Sisley <i>OMass Therapeutics</i> High-throughput native mass spectrometry screening platform for hit identification of TNFa
17:30	CAREERS WORKSHOP, EXHIBITION & POSTER BROWSING
19:00	END OF ACADEMIC DAY
19:00	DAI GAMES SYMPOSIUM & NETWORKING SUPPER (ROYAL ARMOURIES HALL)

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Wednesday 9th September AM
New Dock Hall

TIME	ORAL TRACK A
08:45	PLENARY LECTURE Richard Evershed, University of Bristol What has mass spectrometry ever done for archaeology? Chair: Frank Sobott <i>University of Leeds & BMSS Committee</i>
10:00	FLASH PRESENTATIONS 1 Chair: Samuel Mutto <i>University of Warwick</i> Flash Presentation Orals (5 min, no questions)
11:00	REFRESHMENTS, EXHIBITION & POSTER SESSION Flash Presenters: Sessions 1, 2 & 3 ODD Numbered Posters
12:15	FLASH PRESENTATIONS 4 Chair: Farah Salim <i>University of Leicester</i> Flash Presentation Orals (5 min, no questions)
13:15	BUFFET LUNCH, EXHIBITION & POSTER BROWSING

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Wednesday 9th September PM
New Dock Hall

TIME	ORAL TRACK A
METABOLOMICS & LIPIDOMICS (O4)	
	Chair: Andrew Pitt <i>University of Manchester</i>
14:30	Keynote: Daniel Globisch <i>Uppsala University</i> Chemical metabolomics – novel chemical biology tools to explore gut microbiota and their bioactive metabolites
15:00	Salah Abdelrazig <i>New York University Abu Dhabi</i> Hybrid zwitterionic HILIC method for untargeted metabolomics reveals metabolic perturbations in doxorubicin-treated breast cancer cells
15:20	Georgia Millard <i>Sheffield Hallam University</i> Imaging the metabolomic landscape of uveal melanoma to determine key biomarkers*
15:40	Minhui Zhu <i>University of Manchester</i> Structural fatty-acid analysis of Parkinson's Disease skin swabs using UVPD and OzID*
16:00	REFRESHMENTS, EXHIBITION & POSTER SESSION Flash Presenters: Session 4, 5 & 6 EVEN Numbered Posters
17:15	PARTNER PRESENTATIONS IN BURY THEATRE AND PEARL SUITE
17:45	<i>END OF ACADEMIC DAY</i>
18:00	LGBTQ+ PRE-DINNER SOCIAL GET TOGETHER (BREWERY WHARF TAVERN)
19:00	DRINKS RECEPTION & CONFERENCE DINNER (TICKETED EVENT – WAR GALLERY & NEW DOCK HALL)

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Wednesday 9th September AM
Bury Theatre

TIME	ORAL TRACK A
08:45	PLENARY LECTURE Richard Evershed, University of Bristol What has mass spectrometry ever done for archaeology? NEW DOCK HALL
10:00	FLASH PRESENTATIONS 2 Chair: Francesca Bellingeri <i>University of Birmingham</i> Flash Presentation Orals (5 min, no questions)
11:00	REFRESHMENTS, EXHIBITION & POSTER SESSION Flash Presenters: Sessions 1, 2 & 3 ODD Numbered Posters
12:15	FLASH PRESENTATIONS 5 Chair: Akhila Ajith <i>University of Manchester</i> Flash Presentation Orals (5 min, no questions)
13:15	BUFFET LUNCH & EXHIBITION

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Wednesday 9th September PM
Bury Theatre

TIME	ORAL TRACK A
EARTH, ENVIRONMENT & FOOD (05)	
	Chair: Oliver Slingsby-Wolfe <i>Shimadzu UK</i>
14:30	Keynote: Andreas Römpf <i>University of Bayreuth</i> High resolution mass spectrometry imaging in food and environmental research
15:00	Joscelyn Harris <i>University of Liverpool</i> Pushing the limits of palaeoproteomics: identification of endogenous collagen peptides from a ~163Ma Jurassic Crocodilian
15:20	Sanugi Dassanayake <i>University of Warwick</i> Exploring the variations in the detected odd- and even- electron ions upon varying ion source parameters using atmospheric pressure photoionization FTICR mass spectrometry*
15:40	Aeshah Niyazi <i>University of York</i> Non-targeted mass spectrometry profiling for authenticating geographical and botanical origin of extra virgin olive oil*
16:00	REFRESHMENTS, EXHIBITION & POSTER SESSION Flash Presenters: Session 4, 5 & 6 EVEN Numbered Posters
PARTNER PRESENTATIONS 1	
	Chair: Colleen Maxwell <i>University of Leicester</i>
17:15	SHIMADZU: Oliver Slingsby-Wolfe <i>Shimadzu UK</i> A complete LCMS solution for measuring PFAS in drinking water
17:45	<i>END OF ACADEMIC DAY</i>
18:00	LGBTQ+ PRE-DINNER SOCIAL GET TOGETHER (BREWERY WHARF TAVERN)
19:00	DRINKS RECEPTION & CONFERENCE DINNER (TICKETED EVENT – WAR GALLERY & NEW DOCK HALL)

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Wednesday 9th September AM
Pearl Suite

TIME	ORAL TRACK A
08:45	PLENARY LECTURE Richard Evershed, University of Bristol What has mass spectrometry ever done for archaeology? NEW DOCK HALL
10:00	FLASH PRESENTATIONS 3 Chair: Ellen Liggett <i>University of Leicester</i> Flash Presentation Orals (5 min, no questions)
11:00	REFRESHMENTS, EXHIBITION & POSTER SESSION Flash Presenters: Sessions 1, 2 & 3 ODD Numbered Posters
12:15	FLASH PRESENTATIONS 6 Chair: Adam King <i>Waters Corporation</i> Flash Presentation Orals (5 min, no questions)
13:15	BUFFET LUNCH & EXHIBITION

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Wednesday 9th September PM
Pearl Suite

TIME	ORAL TRACK A
BIOPHARMACEUTICALS (O6)	
	Chair: Peter O'Connor <i>University of Warwick</i>
14:30	Keynote: Jonathan Bones <i>National Institute for Bioprocessing Research and Training</i> Product and process characterisation using native mass spectrometry
15:00	Mark Dickman <i>University of Sheffield</i> Multi-attribute monitoring of mRNA medicines using online RNase digests in conjunction with mass spectrometry
15:20	Akhila Ajith <i>University of Manchester</i> Characterizing AAVs with a miniaturized dual sector charge detection mass spectrometer*
15:40	Paul Davey <i>AstraZeneca</i> Intracellular uptake and dispersion of ADC Warhead using quantitative mass spectrometry
16:00	REFRESHMENTS, EXHIBITION & POSTER SESSION Flash Presenters: Session 4, 5 & 6 EVEN Numbered Posters
PARTNER PRESENTATIONS 2	
	Chair: Amar Rai <i>Imperial College London</i>
17:15	THERMO FISHER SCIENTIFIC: Wai-Chi Man <i>Thermo Fisher Scientific</i> Comprehensive PFAS screening in food contact materials using combustion ion chromatography and high-resolution mass spectrometry
17:45	<i>END OF ACADEMIC DAY</i>
18:00	LGBTQ+ PRE-DINNER SOCIAL GET TOGETHER (BREWERY WHARF TAVERN)
19:00	DRINKS RECEPTION & CONFERENCE DINNER (TICKETED EVENT – WAR GALLERY & NEW DOCK HALL)

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Thursday 10th September AM
New Dock Hall

TIME	ORAL TRACK A
IMAGING MS (O7)	
Chair: Rian Griffiths <i>University of Nottingham</i>	
9:00	Keynote: Andrew Ewing <i>University of Gothenburg</i> Nanoanalytical measurements of cellular vesicles, vesicular sub-compartments, and stress granules
9:30	Rachel Smith <i>University of Manchester</i> Echo-DESI mass spectrometry for automated nanolitre-scale ultrahigh-throughput reaction screening*
9:50	Rohith Krishna <i>Sheffield Hallam University</i> MALDI Imaging for forensic analysis of drug-contaminated fingerprints using an ion mobility QToF mass*
10:10	Anna Simmonds <i>University of Leeds</i> Footprints of amyloid aggregation: molecular structure analysis and SIMS imaging of amyloid in brain tissue*
10.30	REFRESHMENTS, EXHIBITION & POSTER BROWSING
CLINICAL & FORENSIC (O10)	
Chair: Fozia Shaheen <i>University of Birmingham</i>	
11:45	Keynote: Tiia Kuuranne <i>Swiss Laboratory for Doping Analyses</i> Evolution and applications of MS-based analytical methods in anti-doping analyses
12:15	Bryn Flinders <i>Maastricht University</i> Real-time brain tumor detection using a compact mobile mass spectrometry platform
12:35	Simona Francese <i>Sheffield Hallam University</i> Development of an intelligent Fingerprint Imaging Software (iFIS)
12:55	Abigail Hubball <i>University of Nottingham</i> Rapid detection of <i>Pseudomonas</i> infection markers in samples from individuals with Cystic Fibrosis patient samples*
13:15	BUFFET LUNCH, EXHIBITION & POSTER BROWSING

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Thursday 10th September PM
New Dock Hall

TIME	ORAL TRACK A
14:30	PRIZE PRESENTATIONS
14:45	CLOSING REMARKS & CLOSING PLENARY Claire Vallance, University of Oxford Additional dimensions in mass spectrometry: velocity-map and covariance-map imaging Chair: Mike Morris <i>BMSS Vice-Chair</i>
15:45	<i>CLOSE</i>

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Thursday 10th September AM
Bury Theatre

TIME	ORAL TRACK B
SMALL MOLECULES & PHARMACEUTICS (O8) Chair: Tom Ruane <i>SCIEX</i>	
9:00	Keynote: Patrick Sears <i>University of Surrey</i> When to bring a knife to a gun fight: where direct analysis does and doesn't work for formulated pharmaceutical product analysis
9:30	Angela Taylor <i>University of Birmingham</i> Hormone hype vs. analytical reality: evaluating direct-to-consumer hormone testing against validated LC-MS/MS methods
9:50	Samuel Weekes <i>University of Warwick</i> Nitrosamines: diagnostics, identification, and the challenges of analysis*
10:10	Gee Yin Bryan Wong <i>Imperial College London</i> A high-throughput DESI-driven platform for chemical characterisation and biological screening directly from crude reaction mixtures*
10.30	REFRESHMENTS, EXHIBITION & POSTER BROWSING
ION MOBILITY MS (O11) Chair: Amar Rai <i>Imperial College London</i>	
11:45	Keynote: Tim Causon <i>BOKU University</i> Unlocking the application opportunities of IM-MS: the role of new biological reference materials and reporting standards
12:15	Dale Cooper-Shepherd <i>Waters Corporation</i> Development of a modified Cyclic IMS platform for enhanced biomolecule characterization
12:35	Francesca Bellingeri <i>University of Leeds</i> Understanding oligonucleotides: creating a toolbox to investigate structural features of the thrombin-binding aptamer and 38-GC*
12:55	Zijie Dai <i>University College London</i> Conformer-specific amylin oligomerisation interface mapping by native top-down tandem IM-MS*
13:15	BUFFET LUNCH, EXHIBITION & POSTER BROWSING

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Thursday 10th September AM
Pearl Suite

TIME	ORAL TRACK C
LIFE SCIENCES (NON-CLINICAL) (O9)	
Chair: Srijia Moulik <i>University of Surrey</i>	
9:00	Keynote: Gerald Larrouy-Maumus <i>Imperial College London</i> Identification of a phosphoglucomutase required for trehalose metabolism and maintaining redox homeostasis in <i>Mycobacterium tuberculosis</i>
9:30	Natalie Homer <i>University of Edinburgh</i> Exploring laser capture microdissection of brain tissue for steroid measurement in an avian model
9:50	Carver (Kei) Wong <i>University of Nottingham</i> Probing the metabolome of lignin-metabolising fungal biofilms for wastewater treatment via LESA-MS*
10:10	Elisabete Pires <i>University of Oxford</i> Revisiting an Egyptian mummified foetus: multi-omics and imaging reveal evidence of anencephaly and embalming practice
10.30	REFRESHMENTS, EXHIBITION & POSTER BROWSING
MS IN STRUCTURAL BIOLOGY (O12)	
Chair: Aneika Leney <i>University of Birmingham</i>	
11:45	Keynote: Anne Dell <i>Imperial College London</i> High sensitivity glycomics: windows to glycan function
12:15	Jonathan Phillips <i>University of Exeter</i> Watching enzymes move with HDX-MS
12:35	Adam Cahill <i>University of Leeds</i> Development of photoactivatable and enrichable lysine reactive trifunctional-crosslinking reagents*
12:55	Zulaikha Akbar <i>University of Manchester</i> Probing pH-dependent structural dynamics in the plant SUC1 transporter by HDX-MS*
13:15	BUFFET LUNCH, EXHIBITION & POSTER BROWSING

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FLASH PRESENTATIONS 1: NEW DOCK HALL

1 Robert Green *JEOL Ltd* Benchmarking machine learning-assisted structure elucidation for database-invisible metabolite standards using GC-HRTOFMS

3 John Moncur *SpectralWorks Ltd* Improving open-access mass spectrometry reliability through automated system suitability

5 Harold Cannon *University of Oxford* Quantifying short chain fatty acids*

7 Quynh Mai Nguyen Le *Imperial College London* A methodological framework for quantify and characterise volatile organic compounds (VOCs) in extracellular vesicles* (BMSS Summer Student)

9 Nyasha Munjoma *Waters Corporation* Addressing the challenge of rapid drug metabolite identification using cyclic ion mobility mass spectrometry

11 Rebecca Nash *National Measurement Laboratory at LGC* Toward standardisation in clinical diagnostics: investigations into liquid handling robotics to underpin SI traceable measurements*

13 Adrian Schuetz *Thermo Fisher Scientific* Orbitrap Excedion Hybrid MS: a versatile Orbitrap platform enabling high-performance metabolomics and advanced oligonucleotide analysis

15 Scott Campbell *SpectralWorks Ltd* Accelerating forensic drug analysis through combined screening and standard addition

17 Tom Ruane *SCIEX* Enhanced metabolite identification and quantitation using continuously scanning Q1 data-independent acquisition

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FLASH PRESENTATIONS 2: BURY THEATRE

19 Declan Cook *University College London* Mapping the conformational landscape of MutS β in Huntington's disease using structural mass spectrometry*

21 Owen Cornwell *Waters Corporation* Next generation data processing for HDX-MS; boosting functionality, flexibility and scalability*

23 Jaime Pitts *University of Leeds* Quantitative crosslinking mass spectrometry reveals the dose dependent conformational dynamic modulation by cardiac myosin inhibitors*

25 Kish Adoni *University College London* Protein glutathionylation as a dynamic regulator of global protein-protein interactions and protein functionality*

27 Thomas Wilson *Diamond Light Source* Establishing X-Ray footprinting mass spectrometry as a tool for the UK structural biology community*

29 Caitlin Allison *University of Leeds* Developing a cross-platform ion mobility calibration strategy for machine learning applications and small molecule proteome*

31 Oktawia Kuzba *University of Warwick* Untangling mechanical bonds: FTICR, timsTOF, and MS/MS approaches to mechanically interlocked molecules*

33 Withdrawn

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FLASH PRESENTATIONS 3: PEARL SUITE

35 Mbako Robinson Ateh *Sheffield Hallam University* Spatial metabolic reprogramming by BAP1 loss in uveal melanoma: a MALDI-MSI study across models*

37 Aimee Humphreys *University of Nottingham* ^{13}C -labelled spirulina as an internal standard for quantitative mass spectrometry imaging of GBM*

39 Ellie-May Oldfield *University of Manchester* Mapping the molecular landscapes of human fetal spinal development with multimodal imaging mass spectrometry*

41 Dukjin Kang *Korea Research Institute of Standards and Science* Proteomic analysis of *Akkermansia muciniphila*-secreted proteome for discovery of pharmabiotics from human gut microbiome

43 Mark Towers *Waters Corporation* High-speed, high-resolution DESI imaging of tissues on a benchtop folded-flight-path mass spectrometer

45 Yuhong Jin *The Francis Crick Institute* Mass spectrometry imaging reveals spatial localisations of omega-3 and omega-6 fatty acids during brain development*

47 Matija Lagator *Rosalind Franklin Institute* Ice deposition from water gas cluster ion beams at cryogenic temperature*

49 Withdrawn



FLASH PRESENTATIONS 4: NEW DOCK HALL

2 Haokai Wang *University of Warwick* Molecular formula and isomer-level characterisation of fast pyrolysis bio-oils by FTICR MS and timsTOF Pro

4 Luciana da Costa Carvalho *University of Oxford* Does electric heating make incense smoke cleaner? A GCxGC-TOF MS comparison of oud smoke*

6 Anna Cordiner *University of York* Elucidation of double bond position in cooking oils by 2D FT-ICR MS with in-solution epoxidation*

8 Samuel Mutto *University of Warwick* Understanding bitumen application within ancient Iraq (3rd millennium BC) in architectural and ornamental contexts*

10 Christopher McElroy *LGC* Towards addressing the analytical requirements of the EU 2026 packaging and packaging waste regulations

12 Zoe McShane Johnson Matthey Non-targeted mass spectrometry gives new insights into electrochemical degradation of perfluorinated "forever chemicals"*

14 Steven Wright *Verdel Instruments* Profiling foods and foodstuffs using two-dimensional mass spectrometry

16 Benedict Gannon *University of Warwick* FT-ICR MS investigation of decreasing ageing in roads using zinc-based antioxidants to increase lifetime*

18 Callan Littlejohn *University of York* Is PLA really compostable? Semi-automated analysis of PLA breakdown*



FLASH PRESENTATIONS 5: BURY THEATRE

20 Shauna O'Brien *MRC Laboratory of Medical Sciences* LC-MS/MS quantitation of HSA and VDBP with identification of three common VDBP isoforms*

22 Ahmad Alkawi *Labcorp* Quantitative analysis of antibody drug conjugates using high resolution SCIEX Zeno-ToF 7600 mass spectrometer*

24 Teena Binny George *University of Warwick* Unravelling cyclic peptides through ultra high-resolution mass spectrometry*

26 Nikolas Brooks *University of Birmingham* Expanding the mass spectrometry toolkit to discover molecular glues of protein-protein interactions*

28 Caroline Evans *University of Sheffield* Quantification of multiple cargo mRNA vaccines using stable isotope labelled internal standards and LC-MS/MS

30 Max Lockett *University of Nottingham* EDDIE-MS for antisense oligonucleotide therapy diastereomeric profiling*

32 Anna Carolina Machado Marinho *Oswaldo Cruz Foundation (FIOCRUZ CEARÁ)* Integrating middle-up and intact mass spectrometry for in-depth characterisation of monoclonal antibody*

34 Ameya Parkar *Institute of Chemical Technology* Evaluating process development strategies through a multi-attribute mass spectrometry approach to characterize disulfide bond-related modifications*



FLASH PRESENTATIONS 6: PEARL SUITE

36 Joanna Simpson *University of Edinburgh* Development and validation of simultaneous quantification of paracetamol and metabolites in plasma for HiSNAP trial*

38 Lucy Beevors *University of Birmingham* Utilising multi-steroidal metabolite LC-MS/MS techniques for detection and investigation of potential biomarkers in Mucinous Ovarian*

40 Vera Dosedelova *MRC Laboratory of Medical Sciences* Development of a UHPLC-MS/MS assay to investigate biological variation of serum steroids in healthy individuals*

42 Jackie Mosely *University of York* Seeing the dead: non-targeted mass spectrometry explores our Roman past

44 George Ward *Sheffield Hallam University* Development of a mass spectrometry-based approach for human identification and profiling using fingerprint microbiome analysis*

46 Mohammed Al Saud *University of Liverpool* Development of an integrated DT-IMS and compact MS for field detection of drugs and explosives*

48 Francesca Robertson *Guilford Street Laboratories* Translating targeted LC-MS/MS proteomics into clinical diagnostics: developing ISO-accredited anti-drug antibody assay for Fabry Disease

50 Reallocated to Oral Presentations



POSTERS

ADVANCES IN INSTRUMENTATION & DATA ANALYSIS

51 Nanospray MS of intact cyclocarbon catenane complexes – solution-phase stabilisation of a new carbon allotrope

Paul Gates (University of Bristol)

52 From manual to robotic: automation of complex urinary steroid extraction and derivatisation for GC-MS*

Fozia Shaheen (University of Birmingham)

53 Enhancing AAV8 analysis with automated ELIT-CDMS sample delivery

Rob Lewis (Waters Corporation)

54 SEC-CDMS enables online buffer exchange and characterization of protein-based therapeutics

David Ballantyne (Waters Corporation)

55 EXD and MSⁿ performance of timsOmni for small and large molecule structural analysis

Eleanor Dickinson (Bruker Daltonics GmbH & Co)

56 Detection of illicit opioids in representative cutting-agent mixtures using a differential-mobility-analyser(DMA) incorporating multi-channel electrode array

Baris Akbali (University of Liverpool)

57 Label-free quantitative proteomics using narrow-window ZT Scan DIA

Joe Moores (SCIEX)

58 Accelerating large-panel analysis and method development with fast MRM acquisition on novel LC-MS

Iain Mayer (SCIEX)

59 Enabling deep proteome coverage at ultra-high throughput LCMS stepped quadrupole DIA on MRT

George Just (Waters Corporation)

60 Enabling scalable, reproducible proteomics with the Agilent AssayMAP Bravo protein sample preparation platform

Sufyan Pandor (Agilent Technologies)

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AMBIENT IONISATION MS

61 Rapid identification of street drugs using Verispray paper spray ion source and Orbitrap-MS

Tung Ting Sham (University of Liverpool)

BIOPHARMACEUTICALS

62 Development of a multi-attribute method applied to monoclonal antibodies from clarified cell culture fluid

Jake Busuttil-Goodfellow (UCB)

63 Mapping T-cell receptor-peptide-HLA interactions using cross-linking and hydrogen-deuterium exchange mass spectrometry*

Felicity Eady (University of Leeds)

64 Consecutive analysis of oligonucleotides, proteins and peptides on the same stationary phase

Frederik Peschke (University of Strathclyde)

65 Rapid characterisation of plasmid DNA for mRNA and AAV therapeutics using restriction digestion mass spectrometry

Thomas Minshull (University of Sheffield)

66 Automated LC/MS system readiness assessment for MAM using purpose designed peptide standards

Hannah Florence (Agilent Technologies)

CLINICAL & FORENSIC

67 Detection of trace drugs of abuse

Adam Haworth-Duff (University of Liverpool)

68 Analysis of unregulated nicotine pouches: quantification of nicotine and tobacco specific nitrosamines in Scotland

Graeme Anderson (University of Strathclyde)

69 Development of an LC-MS/MS method for the quantification of mono-iodotyrosine and di-iodotyrosine

Saba Kaid (University of Birmingham – BMSS Summer Student)

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EARTH, ENVIRONMENT & FOOD

70 Development of an LC-MS/MS method for the analysis of HT-2 and T-2 mycotoxins in food

Andreas Loebers (Avantor)

71 Comprehensive PFAS screening in food contact materials using combustion ion chromatography and high-resolution mass spectrometry

Wai-Chi Man (Thermo Fisher Scientific)

72 Identification of novel per-and-polyfluoroalkyl substance (PFAS) isoform in textile using a multi-reflecting time-of-flight mass spectrometer technology

Ashley Sage (Waters Corporation)

73 Atmospheric pressure ionisation-mass spectrometry method optimisation for polychlorinated biphenyl detection in environmental samples*

Jack Bailey (University of Bath – BMSS Summer Student)

74 A lifetime of chemical science

Peter Baugh (BMSS EFASIG)

75 Automated analysis of foods by ICP-QQQ with a switching valve and autodilutor

Richard Blankley (Agilent Technologies)

IMAGING MS

76 High spatial resolution OrbiSIMS imaging of Drosophila using Ar/CO₂-GCIB*

Anya Eyres (University of Oxford)

77 Laser ablation - isotope ratio mass spectrometry imaging: a new axis in MS-I*

Thomas Hankinson (Sercon)

78 High-resolution microscope-mode secondary ion mass spectrometry imaging

Yuting Su (University of Oxford)

ION MOBILITY MS

79 Feature-driven ion mobility mass spectrometry for the identification and discrimination of small molecule isomers

Corrine Warne (Waters Corporation)

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LIFE SCIENCES (NON-CLINICAL)

80 Breaking the diagnostic bottleneck: integrating microsampling and proteomics to enhance livestock diagnostics*

Srija Moulik (University of Surrey)

METABOLOMICS & LIPIDOMICS

81 Machine learning-assisted identification of amitriptyline metabolites from UHPLC-MS/MS data

Nouf Alourfi (King Abdulaziz University)

82 High throughput multi-OMIC single cell analyses using analytical scale chromatography with MRT HRMS

Nikki Atwal (Waters Corporation)

83 Liquid chromatography–tandem mass spectrometry profiling of sterols and bile acids in Parkinson's Disease

Kersti Karu (University College London)

84 Multi-OMICS analyses of fecal extracts

Adam King (Waters Corporation)

85 mzmine-enabled comparison of DDA and DIA lipidomics on a multi-reflecting time-of-flight mass spectrometer

Christopher Titman (Waters Corporation)

86 Cell response to 3D printed curvature: morphology and metabolomics

Rian Griffiths (University of Nottingham)

87 Multi-platform and multi-laboratory evaluation of a quantitative metabolomics assay targeting over 1,200 metabolites

Adam Hughes (PreOmics GmbH)

88 Quantitative and qualitative analysis of oxylipins using high-resolution mass spectrometry with CID- and EAD-based fragmentation

Tom Ruane (SCIEX)



MS IN STRUCTURAL BIOLOGY

89 Probing backbone dynamics of substrate recognition in the bacterial peptide transporter PepT_{so} by HDX-MS*

Bahar Alizadeh (University of Manchester)

90 Assessing the impact of misincorporation on monoclonal antibody therapeutics using hydrogen-deuterium exchange mass spectrometry*

Heather Bottomley (UCB)

91 Investigating the conformational dynamics of wild-type and glucose-transporting XylE variants by hydrogen–deuterium exchange mass spectrometry*

Jueru Chen (University of Manchester)

92 Automated online buffer exchange for native mass spectrometry protein-ligand screening workflows

Suraj Dhungana (Andson Biotech)

93 Native mass spectrometry of biotherapeutics via automated online buffer exchange: from proteins to viral vectors

Lauren Schmitt (Andson Biotech)

94 What's inside a vaccine? A closer look using charge detection mass spectrometry

Ruchika Kogimtzis (Waters Corporation)

95 Optimising fragmentation methods to improve sequence analysis of oligonucleotide by tandem mass spectrometry

Kelly Hodge (University of Edinburgh)

96 Comparative native MS analysis of pulled tips and SEC platforms for antibody and antigen complexes

Matt Mackintosh (UCB)

97 Understanding and monitoring disulphide bond scrambling in protein structure using ion mobility separations*

Helen Zhang (University of Warwick)

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98 Profiling cellular protein structural dynamics using a selective capture HDX-MS strategy*

Mahjoobeh Ehsani (University of Southampton)

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99 Automating proteomic workflows for spatially resolved mass spectrometry-based proteomics*

Isabelle Legge (University of Oxford)

100 Exploring the proteomics capabilities of a new trapped ion mobility Q-TOF designed for enhanced metabolomics

Atakan Arda Nalbant (Bruker Daltonics GmbH & Co)

101 Resolving disease-linked plasma glycoforms using high-accuracy multi-reflecting time-of-flight mass spectrometry in Bipolar Disorder and Schizophrenia

Ross Chawner (Waters Corporation)

102 Unspecific molecular adsorption (UMA) sample preparation for bottom-up and whole protein analysis

Alexandre Zougman (University of Leeds)

103 From sewage to surveillance: a semi-automated proteomics pipeline for wastewater-based health monitoring*

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104 Region-specific proteomic profiling reveals molecular heterogeneity in post-mortem Huntington's disease brain*

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105 Accelerated and reproducible sample preparation workflow for high-quality FFPE tissue proteomics

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106 The influence of the N-alkyl group on the EI mass spectra of sulphonamides

Richard Bowen (University of Bradford)

107 Comparative Hammett correlations from competition experiments in accelerated formation of substituted diarylquinoxalines*

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108 Pre-quadrupole energy introduction on stability of pharmaceutical impurities during LC-MS analysis

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109 Comprehensive E&L analysis through an integrated single injection Quan/Qual analysis using a benchtop MRT

Rachel Sanig (Waters Corporation)

110 Substituent effects on the ESI spectra of isomeric N-butylbenzenesulphonamides*

Amie Saidykhan (University of Bradford)

111 Screening to quantification: DDA of extractables determine makers of interest for ToF-MRM quantitation

Jack Steed (Waters Corporation)

112 Real-time quantitative monitoring of gas-evolving reactions by EI-MS using a crimped leak interface*

Xiuqiang Weng (NOVA University of Lisbon)

113 Withdrawn

114 Advances in method development for the tandem analysis of oestrogen and progestins in biological matrices*

Ellesha Fielding (Cancer Research UK Cambridge Institute)

DIGITAL-ONLY POSTER

115 Microplastics and nano-ZnO particles: interactions, accumulation, and toxicity in fish*

Helisoa Derjean (University of Plymouth)

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