THE BRITISH MASS SPECTROMETRY SOCIETY

The 40th BMSS ANNUAL MEETING ROYAL NORTHERN COLLEGE OF MUSIC MANCHESTER 03-05 SEPTEMBER 2019





E-SHORT PROGRAMME

Sponsors & Media Partners

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Ånalytical Scientist







Dear Members and Delegates,

It is with great pleasure that I welcome you to the BMSS40 Annual Meeting at the Royal Northern College of Music here in the 'spiritual' home of Mass Spectrometry, Manchester.

This year we have teamed up with the British Society for Proteome Research (BSPR) to enhance our scientific programme.

We will celebrate this landmark 40th Annual Meeting with a curry night social event on Tuesday evening with live music provided by graduates of the RNCM. This event is an excellent opportunity to catch up with old friends or possibly make new ones.

I regret to have to inform you that, due to circumstances beyond our control, we have had to relocate the conference dinner, at very short notice, to the Manchester Mercure Hotel.

The vendor exhibition offers a unique chance to quiz the applications and sales staff from all the manufacturers in one location. Please make use of this excellent opportunity and visit the companies to learn about their latest innovations. The BMSS Committee would like to thank all the sponsors and exhibitors for their enabling and very generous support of BMSS40. This continued support is very much appreciated.

In conclusion I would like to thank my fellow members of the BMSS Committee for their hard work in bringing BMSS40 to life, especially Mark McDowall, Neil Oldham, Jackie Mosely, Mark Barrow, Hannah Florance, Cris Lapthorn, and Lisa Sage.

I look forward to seeing you all on Tuesday evening and hope everyone has a very enjoyable conference!

Ashley Sage

BMSS Chair

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BMSS4O Programme

MONDAY 2nd SEPTEMBER

11:00-17:15 BMSS Introduction to Mass Spectrometry Course (RNCM Forman Lecture Theatre)

TUESDAY 3rd SEPTEMBER

09:00-16:15 BMSS Introduction to Mass Spectrometry Course (RNCM Forman Lecture Theatre)

09:00-18:00 Exhibition Set-Up

14:00-18:00 Conference Registration & Poster Set-Up

16:30-17:45 Careers Workshop (RNCM Forman Lecture Theatre)

16:30-17:45 BMSS/UKRI Mass Spectrometry Vision Document Discussion (RNCM Conference Room)

18:00 BMSS40 ANNUAL MEETING OPENING (RNCM Theatre)

Chair: Dr Ashley Sage (SCIEX)

18:10 THE MACCOLL LECTURE:

Professor I. Jonathan Amster, University of Georgia, USA *"Expanding the Repertoire of Ion Activation Methods for Glycosaminoglycans"*

19:00 SOCIAL EVENT: "*The Dai Games Symposium*" Drinks Reception (RNCM Concourse) 20:00 SOCIAL EVENT: Curry Night with Live Music (RNCM Concourse)

WEDNESDAY 4th SEPTEMBER

THIRD PARALLEL SESSION ### (RNCM Forman Lecture Theatre) ### THIRD PARALLEL SESSION ### ROSALIND FRANKLIN INSTITUTE BRIEFING ON BIOLOGICAL MS

Chairs: Professor Z. Takats (ICL) and Professor J. Bunch (NPL) 10:40 Keynote lecture: Professor Josephine Bunch, NPL, Teddington, UK.

"The Rosalind Franklin Institute and the Biological Mass Spectrometry Theme"

- 11:10 Professor Zoltan Takats, ICL, London, UK. *"High Pressure Imaging Technologies on the New RFI Instrument"*
- 11:30 T.B.A. "SIMS and Related Technologies – Potential Integration With Electron Microscopy"

11:50 T.B.A. "Applications and Community Engagement"





Wednesday 4th Sep RNCM Theatre

08:30 08:40	WELCOME: Dr Ashley Sage (SCIEX) THE MANCHESTER LECTURE: Dr Angela Lamb, British Geological Survey, Keyworth, Nottingham, UK.
	"A Diet Fit For a King? Isotope Investigations Into the Life of Richard III"
09:40	COFFEE, EXHIBITION, POSTER (Even No. Poster Presenters Present)
SESSI 10:40	ON 1 MEDICAL & CLINICAL APPLICATIONS Chair: Dr Andrew Davison (RL&B University Hospital) Keynote lecture: Professor Warwick Dunn, University of Birmingham, UK. <i>"Understanding Metabolism in Biomedical Applications - Case Studies in Cardiology and Hypervitaminosis A"</i>
11:10	Meng Li, University of Warwick, UK. "Discovery of Bioactive Proteins Derived from Scorpion Venom using Two Dimensional Mass Spectrometry"
11:30	Dr Jean-Francois Focant, University of Liege, Belgium. "Breath Analysis for Asthma Phenotyping and Beyond"
11:50	Dr Angela Taylor, University of Birmingham, UK. "Steroid Metabolism in Patients Following Severe Trauma: The Golden Hour Study"
12:10 13:00	LUNCH, EXHIBITION, POSTERS (Presenters Not Present) [RFI Member Delegate Internal Meeting] Major Sponsors' Open Mic Event (RNCM Theatre)
SESSI	ON 3 MS IN FORENSIC SCIENCE Chair: Profesor Simona Francese (SHU)
14:10	Keynote lecture: Dr Michael Buckley, University of Manchester, UK. "Proteomics in the Analysis of Forensic, Archaeological and Palaeontological Bone"
14:40	Dr Anthony Sullivan, Shimadzu UK Limited, UK. <i>"Quick, Easy and Direct. Direct Probe lonisation Mass Spectrometry (DPiMS) in forensic toxicology"</i>
15:00	Dr Jackie Mosely, Durham University, UK. <i>"ASAP MS for The Real-time Identification of</i> Psychoactive Drugs Supplied by the Public as Part of a Harm-reduction Service"
15:20	Dr Juergen Wendt, LECO EATC Berlin, D. <i>"The Usage of High Resolution MS, in combination with Gas Chromatography or Direct Inlet Probe, for Clinical and Forensic Applications"</i>
15:40	TEA, EXHIBITION, POSTERS (Presenters Not Present)
SESSI	ON 5 PUBLIC HEALTH AND WELLBEING Chair: Dr David Megson (MMU)
16:10	Keynote lecture: Dr Karl Jobst, McMaster University, Hamilton, Ontario, Canada. "Top-Down & Bottom-Up Exposomics by Gas Chromatography-High Resolution Mass Spectrometry"
16:40	Bryan Marzullo, University of Warwick, UK. <i>"Two-Dimensional Mass Spectrometry Analysis of</i> Agrochemicals in Environmental Samples"
17:00	Dr Alan Griffiths, LECO UK. <i>"Combination of Sensory and MS Analyses for Evaluation of Beer's</i> Shelf Life Stability"
17:20	Paul Davey, AstraZeneca, UK. <i>"Label Free Mass Spectrometry for Intracellular Drug Distribution of</i> Traditional and New Drug Modalities"
18:00	LGBTQ+ Group Meeting "Get Together" (RNCM Committee Room)
19:00	CONFERENCE DINNER & PRE-DINNER DRINKS RECEPTION (Piccadilly Mercure Hotel)
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Wednesday 4th Sep Concert Hall

09:40 COFFEE, EXHIBITION, POSTER (Even No. Poster Presenters Present)

SESSION 2 INORGANIC AND ISOTOPE RATIO MSChair: Dr Catherine Duckett (SHU)10:40Keynote lecture: Dr Amy Managh, Loughborough University, UK. "Predicting Drug Resistance: High
Resolution Imaging of Cisplatin Distribution in Treated Explant Tissue"

- 11:10 Isabella Gaffney, University of York, UK. "Can Isotope Ratio Mass Spectrometry be used to Demonstrate Drought Stress in Archaeological Maize?"
- 11:30 Joseph Ready, Sheffield Hallam University, UK. "The Use of LA-ICP-MS and Related Techniques for the Analysis of Essential Elements in Plant Tissue"
- 11:50 Dr Jackie Morton, Health and Safety Executive, UK. *"The use of elemental speciation in human biomonitoring"*

12:10 LUNCH, EXHIBITION, POSTERS (Presenters Not Present) [RFI Member Delegate Internal Meeting] 13:00 Major Sponsors' Open Mic Event (RNCM Theatre)

SESSION 4 INSTRUMENT DEVELOPMENT AND FUNDAMENTAL MS Chair: Dr Kevin Giles (Waters)

- 14:10 Keynote lecture: Prof. Bela Paizs, Deshape Ltd., UK. *"Structural Elucidation of Metabolites"*
- 14:40 Emma Norgate, University of Manchester, UK. *"Making Ion Mobility Cool: Applications and Advantages of Variable Temperature IMS"*
- 15:00 Dr Sebastiano Panto, LECO EATC. "Benefit of a novel GCXGC-TOFMS system for pesticides screening in complex food matrices"
- 15:20 Dr Christopher Wootton, University of Warwick, UK. *"Next steps in 2DMS"*

15:40 TEA, EXHIBITION, POSTERS (Presenters Not Present)

SESSION 6 MS IN STRUCTURAL ANALYSIS Chair: Professor Frank Sobott (University of Leeds)

- 16:10 Keynote lecture: Prof. Alison Ashcroft, University of Leeds, UK. *"Adventures with FPOP"*
- 16:40 Aidan P. France, University of Manchester, UK. *"The use of direct infusion mass spectrometry to analyse proteins directly from non-complex protein-rich food sources"*
- 17:00 Charles Eldrid, University College London, UK. *"Insights Into The Structure and Dynamics of Dimeric hIAPP Using Tandem IMS and ECD"*
- 17:20 Kate Groves, LGC, UK. "Model protein systems for understanding the repeatability and reproducibility of HDX-MS measurements"

18:00 LGBTQ+ Group Meeting "Get Together" (RNCM Committee Room)

19:00 CONFERENCE DINNER & PRE-DINNER DRINKS RECEPTION (Piccadilly Mercure Hotel)

Thursday 5th Sep RNCM Theatre

SESSI	ON 7 BSPR GUEST SESSION Chair: Professor Rainer Cramer (University of Reading)
08:30	Keynote lecture: Dr Joe Gault, University of Oxford, UK. "NativeOmics"
09:00	Jean-Pierre Chervet, Antec Scientific, The Netherlands. <i>"Electrochemical Reduction of Disulfide</i> Bonds in Biopharmaceuticals for Superior Characterization by MS"
09:20	Pui Yiu Lam, University of Warwick, UK. <i>"Two Dimensional Mass Spectrometry (2DMS): The Next Dimension in Proteomics"</i>
09:40	Shane Chandler, University of Oxford, UK. <i>"Coupling Gas-phase HDX To IMS Reveals Structural Transitions as Proteins Leave Their Native State"</i>
10:00	COFFEE, EXHIBITION, POSTER (Odd No. Poster Presenters Present)
SESSI	ON 9 LIPIDOMICS AND METABOLOMICS Chair: Professor James McCullagh (University of Oxford)
11:00	Keynote lecture: Professor Lorraine Brennan, University College Dublin, IRL. "Metabolomics in Nutrition: A Solution to Major Challenges in The Field"
11:30	John Walsby-Tickle, University of Oxford, UK. <i>"Exploring Routine Application of Ion Mobility-Mass</i> Spectrometry for Targeted and Untargeted Metabolomics"
11:50	Stefania Maneta-Stavrakaki, Imperial College London, UK. <i>"High-throughput Lipidomic Analysis of Genetically Modified CHO Cells Under Ambient Conditions Using Laser-ablation REIMS"</i>
12:10	Professor Andrew Pitt, Aston University, UK. <i>"Lipids in the round: digging deeper with cyclic ion mobility mass spectrometry"</i>
12:30	LUNCH, EXHIBITION, POSTERS (Poster Presenters Not Present)
13:00	BMSS ANNUAL GENERAL MEETING (RNCM Theatre)
SESSI	ON 11 CHALLENGES IN MASS SPECTROMETRY Chair: Professor Josephine Bunch (NPL & ICL)
13:30	Keynote lecture: Dr Richard Goodwin, AstraZeneca, UK. <i>"Defining the Challenges for Mass</i> Spectrometry Against a Changed Landscape of Drug Discovery and Development"
14:00	Rachelle Black, University of Manchester, UK. "Shedding a Light on the Structural Changes of Proteins Using Ion Mobility Mass Spectrometry and Photoactivation"
14:20	Julie Herniman, University of Southampton, UK. <i>"Mass Spectrometry Analysis of Fullerenes and Endohedral Fullerenes"</i>
14:40	Dale Cooper-Shepherd, Waters Corporation, UK. <i>"Development and Application of a Cyclic Ion Mobility Mass Spectrometer"</i>
15:00	CHAIR'S INVITED LECTURE Chair: Dr Ashley Sage (SCIEX) Professor Gary L. Glish, University of North Carolina, Chapel Hill, USA
	Chromatography): Fundamentals and Applications"
16:00	Prize Presentation
16:20	BMSS40 Meeting Close

Thursday 5th Sep Concert Hall

	ON 8 DEVELOPMENTS IN AMBIENT IONISATION Chair: Dr Patrick Sears (University of Surrey)
08:30	Keynote lecture: Prof. Zoltan Takats, Imperial College, London, UK. <i>"The Renaissance of Laser Desorption Ionization in the Era of Ambient MS"</i>
09:00	Holly-May Lewis, University of Surrey, UK. <i>"Direct Analyte-Probed Nanoextraction and Liquid</i> Chromatography Mass Spectrometry Delivers Improved Spatially Resolved Analysis"
09:20	Dr Bryan McCullough, National Measurement Laboratory, UK. <i>"ASAP Qda: Rapid Identification of Bulk Drug Seizures by ASAP MS Using a Deployable Mass Spectrometer"</i>
09:40	Denver Sheelan, GlaxoSmithKline, UK. <i>"Using Rapid Evaporative Ionisation Mass Spectrometry (REIMS) as a Monitoring Tool of Product Quality Within Cell-based Applications"</i>
10:00	COFFEE, EXHIBITION, POSTER (Odd No. Poster Presenters Present)
SESSI	ON 10 MASS SPECTROMETRY IMAGING Chair: Dr Peter Marshall (GlaxoSmithKline)
11:00	Keynote lecture: Dr Melanie Bailey, University of Surrey, UK. <i>"Ion Beam Analysis Meets Mass</i> Spectrometry: Where Physics and Chemistry Collide!"
11:30	Dr Carla Newman, GlaxoSmithKline, UK. "SiLC-MS (Single Live Cell Mass Spectrometry) Analysis in the Context of Drug Discovery"
11:50	Lucy Flint, Sheffield Hallam University, UK. <i>"Progress in Biopharmaceutical Detection in an</i> Aggregated 3d Cell Culture Model by Mass Spectrometry Imaging"
12:10	Danielle J McDougall, University of Manchester, UK. <i>"Diagnosing the Masses: Distinguishing</i> Between Indolent and Aggressive Prostate Cancer Cell Lines Using MS Imaging Techniques"
12:30 13:00	LUNCH, EXHIBITION, POSTERS (Poster Presenters Not Present)
15.00	DW35 ANNUAL GENERAL MEETING (RNGW THEatre)
SESSI	ON 12 MS IN SPORTS DRUG TESTING (RNCM Theatre)
SESSI 13:30	ON 12 MS IN SPORTS DRUG TESTING (KNOW Theatre) ON 12 MS IN SPORTS DRUG TESTING Chair: Dr Ivana Gavrilovic (Kings College London) Keynote lecture: Professor David Cowan, Kings College, London, UK. "MS in Sports Drug Testing: 40 Years on and Going from Strength To Strength"
SESSI 13:30 14:00	ON 12 MS IN SPORTS DRUG TESTING Chair: Dr Ivana Gavrilovic (Kings College London) Keynote lecture: Professor David Cowan, Kings College, London, UK. "MS in Sports Drug Testing: 40 Years on and Going from Strength To Strength" Prof Maria Parr, Freie University Berlin, D. "Mass Spectrometry in Metabolite Investigations: Strength and Challenges Exemplified by the Phytosteroid Ecdysterone"
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BMSS4O Floor Plan & Exhibitors



POSTER LOCATIONS: A) Carole Nash Recital Room

B) Rehearsal Studios

RNCM CONCOURSE 1&2: BRUKER 3: VRS-Recruitment 4&5: SCIEX 6&7: SHIMADZU 8: KRSS 9&10: SHIMADZU **11: KR ANALYTICAL** 12: HICHROM **13: PROVIDION** 14: AGILENT **15: BIOPHARMA PROCESS SYSTEMS** 16: VERULAM **17: ANATUNE** 18: LECO **19&20: THERMO FISHER** SCIENTIFIC 21: MS VISION 22: ATG SCIENTIFIC 23:CHROMATOGRAPHY DIRECT 24: ADVION 25: SPEX Europe **26: JAYTEE 27: ROMIL 28: PHOTONIS RNCM BRODSKY** 29: HAMAMATSU 30&31: WATERS **32: BIOTAGE AB 33: MS Tech Solutions 34: PROTEOME SCIENCES 35: CE INSTRUMENTS MEDIA PARTNERS** A: SAGE Publishing **B: LABMATE**





C: ANALYTICAL Scientist

D: BIOANALYSIS Zone





Social Programme

"DAI GAMES SYMPOSIUM" (mixer): RNCM, 19:00 - 20:00, 3rd Sep.

- In the RNCM Concourse immediately following the Maccoll Lecture.
- Complimentary Drinks.
- Live Music.

CURRY NIGHT: RNCM, 20:00 – 23:00, 3rd Sep.

- In the RNCM Concourse immediately following the "Dai Games Symposium".
- Complimentary Curry.
- Cash Bar.
- Live Music.

CONFERENCE DINNER: Mercure Piccadilly Hotel, 19:00, 4th Sep.

- Pre-Dinner drinks reception 19:00 -20:00.
- Dinner (please take your seat promptly) 20:00 23:00.
- Entry is strictly by ticket only (must be pre-purchased on-line).
- Transport from the RNCM to the Mercure Piccadilly Hotel is not included.
- The Mercure Hotel is a 15 minute walk from the RNCM (1.0 miles).
- The hotel is located very close to the PICCADILLY GARDENS Metrolink (tram) stop.
- LOCATION: Intersection of Piccadilly Gardens and Portland St, Manchester M1 4PH.







THE BRITISH MASS SPECTROMETRY SOCIETY

Major Sponsors' Open Mic Event RNCM THEATRE 04 SEPTEMBER 2019 13:00

The BMSS Annual Meeting would not be possible without the very generous support of ALL of our exhibitors and sponsors.

Our major sponsors contribute support significantly in excess of their costs for exhibiting at the Annual Meeting. To show its appreciation the BMSS is offering its top three supporters an innovative and hopefully crowd pleasing way to say thank you ...join in the fun on Wednesday lunchtime at BMSS4O !





Posters 001-014

1. Rapid Evaporative Ionisation Mass Spectrometry (REIMS) as a non-invasive method for monitoring animals

Natalie Koch, Robert Beynon, Jane Hurst, Mike Morris.

2. Probe Electrospray Ionization (PESI) allows fast detection of compromised blood quality from minimal sample amounts

Christopher Titman, Natalie Bordag, Elmar Zügner, Selina Kofler, Martina Tomberger, Abdullah Al-Baghdadi, Jessica Schweiger, Yasemin Erdem, Christoph Magnes, Hiroki Nakajima, Barbara Prietl.

3. Remote Rapid Thermal Desorption to Enable Automated Evaporative Electrospray Ionization Brian Musselman, Frederick Li, Paul Liang.

4. Rapid Evaporative Ionisation Mass Spectrometry (REIMS) for the monitoring of bacterial growth and expression of exogenous proteins.

Joscelyn Sarsby, Lynn McLean, Victoria M Harman, Robert J Beynon.

5. Rapid Evaporative Ionisation Mass Spectrometry (REIMS) as a new technique for insect identification

Iris Wagner, Natalie I. Koch, Joscelyn Harris, Nicola White, Tom A. R. Price,

Sam Jones, Jane L. Hurst, Robert J. Beynon.

6. A comparison of Secondary Electrospray Ionisation and Secondary Atmospheric Pressure Chemical Ionisation for Trace Explosive Detection

Daniel Burns, Valerio Converso, Bryan McCullough, David Douce, Nicola Lumley, Kate Whyatt, Steve Bajic, Patrick Sears, Chris Hopley.

7. OPSI/MS – a rapid alternative for wash analysis?

Andrew Ray.

8. Spatial, conformational and mass analysis of proteins directly from tissue by native LESA TWIMS-MS imaging.

Oliver J. Hale, Emma K. Sisley, Iain B. Styles, Helen J. Cooper.

9. Top-down identification of bacterial and human proteins directly from infected wounds of in vitro 3D skin models and intact ex vivo human skin

Jana Havlikova, Robin C. May, Jain B. Styles, Helen J. Cooper.

10. Online IEX-MS Characterization and Monitoring of mAb Charge Heterogeneity Using an Optimized Cation Exchange Resin and Compact TOF Mass Spectrometer

Nick Pittman, Samantha Ippoliti.

11. Efficient Identification and Management of Degradant Data in Process Development

Veronica Paget, Andrew Anderson, Sanjivanjit K. Bhal, Joe DiMartino.

12. Application of UHPSFC-MS in petroleomics: Analysis of gasoline gum content

Andreas Panagiotopoulos, Jim Barker, Jacqueline Reid, Julie Herniman, G. John Langley.

13. Combining Ion, Gas and Liquid Chromatography Tandem Mass Spectrometry to identify and quantify residues of over 400 pesticides in food.

Andrew T Wilson, Steven Barbara, Michael J Taylor, Laura M Melton, Emily E Flynn, Kirsty B Reid, Katie J Viezens.

14. Complementary approaches for purity determination of proteins and peptides David Ruperez.

Posters 015-027

15. Pharmaceutical analysis using ion chromatography-mass spectrometry (IC-MS): Application to the analysis of small molecular weight amines

Stephen Holman.

16. Integration of a microfluidic chip with mass spectrometry - A step towards high throughput Directed Evolution screening

Emily Kempa, Xin Li, Clive A. Smith, Keith Richardson, Steven Pringle, Perdita E Barran.

17. Copolymer Analysis by Mass Spectrometry

James Town.

18. Enhancing Subunit-Level Profiling of mAbs and ADCs with MSQuality Difluoroacetic Acid Richard Robinson.

19. Development of a multi-omics approach for the study of secondary envelopment in the beta herpesvirus Human Cytomegalovirus (HCMV)

Hannah Britt, Timothy Soh, Tristan Cragnolini, Jonathan Williams, Chris Hughes, Maya Topf, Jens Bosse, Johannes Vissers, Kostantinos Thalassinos.

20. Analysis of biocompatible synthetic polymers with electron capture dissociation and two dimensional mass spectrometry

Tomos E. Morgan, Andrew Kerr, Sean H. Ellacott, Bryan P. Marzullo, Christopher A. Wootton, Anthony W. T. Bristow, Sebastien Perrier, Peter B. O'Connor.

21. Ultrahigh resolution mass spectrometry for archaeological applications: characterising bitumen from the world's oldest bridge

Mary J. Thomas, Maddie Dowden, Mahsa Aghdas Zadeh, Diana Catalina Palacio Lozano, Rémy Gavard, Hugh E. Jones, Rebecca Stacey, Sebastien Rey, Chris Mussell, Mark P. Barrow.

22. Dynamic data processing tools for petroleomics

Samuel Ellick.

23. Analysis of LC-MS/MS metabolic datasets of amitriptyline and verapamil using Knime Nouf Alourfi.

24. KairosMS: A new method for processing hyphenated ultrahigh resolution mass spectrometry data

Hugh Jones, Rémy Gavard, Diana Catalina Palacio Lozano, Mary J. Thomas, David Rossell, Simon E. F. Spencer, Mark P. Barrow.

25. Species identification of materials used in cultural heritage objects from Alaska in the British Museum's collection using 'ZooMS' methodology.

Michael Nairn.

26. Application of cyclic ion mobility coupled to mass spectrometry for high peak capacity analysis of native and deuterated peptide mixtures

Martin Palmer, Malcolm Anderson, Dale Cooper-Shepherd, James I Langridge, Robert Tonge, John R Engen.

27. A modified Orbitrap Tribrid MS with real-time search and advanced spectral processing enhances multiplexed proteome coverage and quantitation accuracy

Jenny Ho, Aaron M. Robitaille, Romain Huguet, Derek J. Bailey, Graeme McAlister, Arne Kreutzmann, Daniel Mourad, Daniel Lopez-Ferrer, Andreas Huhmer, Vlad Zabrouskov.

Posters 028-040

28. A workflow for co-analysis of canonical and non-canonical protein phosphorylation

Christopher J. Clarke, Simon Perkins, Philip Brownridge, Patrick A. Eyers, Andrew R. Jones, Claire E. Eyers.

29. The use of microfluidic separation to optimise sensitivity of a targeted mass spectrometry method for determination of gluten in food.

Matthew Daly, Chiara Nitride, Sophie Bromilow, Lee Gethings, Clare Mills.

30. Pushing the analytical limits of ultrahigh resolution mass spectrometry: a new strategy to enhance FT-ICR MS capabilities for complex mixture analysis

Diana Catalina Palacio Lozano, Rémy Gavard, Juan P. Arenas-Diaz, Mary J. Thomas -, David Stranz, Enrique Mejía-Ospino, Alexander Guzman, Simon E. F. Spencer, David Rossell, Mark P. Barrow.

31. Cyclic Ion Mobility Mass Spectrometry Distinguishes Anomers and Open-Ring Forms of Pentasaccharides

Jakub Ujma, David Ropartz, Kevin Giles, Keith Richardson, David Langridge, Jason Wildgoose, Martin Green, Steven Pringle.

32. Advances in Forensic Applications: The Integration of Nanoparticles into SALDI for Enhancing the Detection of Small Drug Molecules

Entesar Al-Hetlani.

33. Tailoring the surface chemistry of SiO2-based monoliths to enhance the selectivity of SALDI-MS analysis of small molecules

Mohamed O. Amin.

34. Understanding Cell Competition using Mass Spectrometry

Suniya Khatun, Konstantinos Thalassinos, Alan Lowe.

35. Optimisation of trypsin concentration for MALDI-MS based analysis of blood marks.

Katie Kennedy, Simona Francese, Laura Cole, Mark Sealey.

36. A modified AP-MALDI source for online studies of microdroplet/gas phase chemistry by mass spectrometry

Evita Hartmane, Christian Pfrang, Mike Morris, Rainer Cramer.

37. Combining Ultraviolet Photodissociation with Fourier-Transform Ion Cyclotron Resonance MS for protein 'deep sequencing'

Alina Theisen, Christopher Wootton, Anisha Haris, Yuko Lam, Peter O'Connor.

38. Development of a tool free 'plug and play' ionisation chamber interface for point-of-need applications

Olumuyiwa Ogunjimi, Ed Crichton, Richard Moseley.

39. Development of a novel analytical instrument for matrix independent ICP-MS by hypenation to collinear resonance ionisation spectroscopy (ICP-MS-CRIS)

Giles Edwards, Sultan Alsufyani, Ben Cooper, Holly Perrett, Kieran Flanagan.

40. Beyond Reverse Phase: New LC/MS Methods for uncovering Protein Structure Chris Nortcliffe.





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41. Differentiation and Quantitation of the Isomeric Products of Deamidation using FT-ICR MS

Anisha Haris, Yuko P. Y. Lam, Christopher A. Wootton, Alina Theisen, Cookson K. C. Chiu, Tomos E. Morgan, Mark P. Barrow, Peter B. O'Connor.

42. Improved middle-down characterization of antibodies using multiple ion activation and Proton Transfer Reaction on an Orbitrap mass spectrometer

Andrew Williamson.

43. Development of a rapid LC-MS/MS methodology for the analysis of novel psychoactive substances (NPS) - regioisomeric phenidines

Jennifer Field, Christopher Titman, Christine Hinz, Melvin Euerby, Oliver Sutcliffe.

44. Simultaneous δ 13C, δ 15N and δ 34S analysis of 1 mg of bone collagen: analytical improvements.

Angela Lamb, Kerry Sayle, Christopher Brodie.

45. Development of Cellular Metabolomics

Catherine Munteanu, Chelsea Nikula, Shahd Abuhelal, Zoltan Takats, Josephine Bunch.

46. Identification of human haemoglobin variants through advanced forensic mass spectrometry of blood

Cameron Heaton, Laura Cole, Richard McColm, Simona Francese.

47. Simulation of a quadrupole mass filter employing a digital waveform and discontinuous ion introduction to obtain high resolution and transmission

David Langridge, Martin Green.

48. A high throughput mass spectrometry plate reader: Acoustic droplet ejection to an open-port interface sampling interface

Ashley Sage.

49. Resolution and characterisation of protomer and radical cation species utilising a cyclic ion mobility-enabled quadrupole time-of-flight (Q-cIM-oaToF)

Jim Scrivens, Gillian Taylor, Martin Palmer, Jakub Ujma, Kevin Giles, Jonathan Williams.

50. Liquid AP-MALDI MS applications for high-throughput profiling of biological specimens

Cristian Piras, Oliver J. Hale, Chris Reynolds, A K (Barney) Jones, Nick Taylor, Mike Morris, Rainer Cramer.

51. A targeted detector method for explosives detection on a prototype TD-QDa instrument David Douce, Steve Bajic, John Luke, Lance Hiley, Peter Luke, Richard Sleeman, Patrick Sears.

52. An Improved Calibration Approach for Travelling Wave Ion Mobility Spectrometry: Robust, High-precision Collision Cross Sections

Keith Richardson, David Langridge, Sugyan M. Dixit, Kevin Giles, Jakub Ujma, Brandon T. Ruotolo.

53. Structure Reactivity Relationship in the Formation of 2,3-Diarylquinoxalines from 1,2-Phenylenediamine and Benzils in Nebuliser Microdroplets

Amie Saidykhan.





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54. Substituents Effects on the Formation of 2,3-Diarylquinoxalines from Substituted 1,2-Phenylenediamines and Benzils in Nebuliser Microdroplets

Nathan Fenwick.

55. A new MZmine approach for spectra-based small molecule identification in GC-MS data sets from archaeological research

Ansgar Korf, Simon Hammann, Robin Schmid, Lucy J. E. Cramp, Heiko Hayen.

56. A high speed DIA-MS/MS untargeted metabolic profiling approach for the study of acute and chronic ethanol toxicity in mouse cerebral tissue.

Emily Armitage, Helen Gika, Olga Deda, Christina Virgiliou, Georgios Theodoridis, Neil Loftus, Ian D. Wilson.

57. Exploring the possibility of mass spectrometry-based protocols for monitoring and evaluating bacteriophage production and release

Liam Heaney, Joshua Bain, Rebecca Donohue, Junaid Ali, Martin Lindley, Elizabeth Ratcliffe, James Reynolds.

58. Development of a rapid LC-MS/MS method for the simultaneous quantification of biomarkers and small molecule inhibitors in biological matrices.

Brett O'Brien.

59. Investigation of Induction of Xenobiotic Metabolising Enzymes in a 3D Skin Model by using RTqPCR and GeLC-MS/MS techniques.

Hatem Sallem.

60. UPLC-MS Analysis of β -Carotene Oxidation by Acid-Activated Clays

Andrew Hambly, Paul J. Gates, Jeroen Van Duijneveldt.

61. Laser Ablation Electrospray Ionisation Mass Spectrometry (LAESI-MS) analysis of terpenoids for biotechnology applications.

Andres Galindo Garcia.

62. Untargeted Lipidomics of Normal Appearing White Matter in Multiple Sclerosis using RP-UPLC-TOF-MSE and MALDI-IMS

Petros Pousinis.

63. Understanding the response of Pseudomonas aeruginosa to hypochlorous and hypothiocyanous acids using Rapid Evaporative Ionisation Mass Spectrometry Rob Bradley.

64. A complete workflow for improved untargeted metabolome annotation and identification using ultra HRAM and LC-MSn Orbitrap-based mass spectrometry

David Peake, Reiko Kiyonami, Lena Becciolini, Ioanna Ntai, Amanda Souza, Ralf Tautenhahn.

65. Analysing the differential tissue response to diabetes: a metabolomics approach David Hauton.

66. Electrochemical Simulation of Phase I Metabolism of Three Novel Cardiovascular Drugs Using LC-MS/MS

Andrew Reeder.

67. Electrochemical Simulation of Triclosan Metabolism and Toxicological Evaluation Jean-Pierre Chervet.

68. Lipidomic analysis of stearoyl-CoA desaturase-1 (SCD1) knockout in liver cells Andrea F. Lopez-Clavijo.

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69. Disruption of the serum lipidome of peanut allergic patients experiencing systemic reactions Ivayla Gueorguieva.

70. Blue mussels (Mytilus edulis L.) gonad development: ultrastructure and lipidomics, an integrated LC-MS and histological approach.

Vincenzo Alessandro Laudicella, Stefano Carboni, Mary Doherty, Philip D. Whitfield, Adam D. Hughes.

71. Novel findings in HILIC based LC-MS/MS methods for targeted lipidomics profiling Rebekah Sayers.

72. Discovery of lipid biomarker in brain cancer with a novel semi-targeted lipidomics method Liu

73. Analysis of Lipid Signaling Class Analytes Using a Travelling Wave Cyclic Ion Mobility Separator Emma Marsden-Edwards, Mike McCullagh, Johannes PC Vissers, Martin Plamer, James Langridge.

74. Volatile metabolite signatures of azole-resistant Aspergillus fumigatus TR34/L98H

Waqar Ahmed, Pavlos Geranios, Iain R White, Royston Goodacre, Nick Read, Stephen Fowler, Michael Bromley.

75. Unravel Post-translational Modifications with Two-dimensional Mass Spectrometry

Johanna Paris, Tomos E. Morgan, Christopher A. Wootton, John O'Hara, Peter B. O'Connor.

76. Proteome-wide effects of singlet oxygen produced by next generation Iridium anticancer metallodrugs

Kung Ching, Cookson Chiu.

77. Accelerating DIA Studies to Extend Workflow Utility, Using Ultra-Fast Microflow LC Gradients Nick Morrice, Christie Hunter, Zuzana Demianova.

78. Quantitation of Insulin-Like Growth Factor-1 in Serum by MRM-LC-MS/MS Yihan Li, Ji Jang, Victoria South, Lei Xiong, Xiang He.

79. Evaluating NF-κB regulated signalling pathways that control tumourigenesis and the response to cancer therapy

Amy Campbell, Jill Hunter, Neil Perkins, Claire Eyers.

80. Developing native mass spectrometry to monitor protein-protein interaction stabilisers Manjari Mohata, Richard G. Doveston, Aneika C. Leney.

81. An investigation of the fragmentation of isomeric leucine, isoleucine and I-allo-isoleucine Candy Jiang.

82. Application of MD-IDA in the analysis of in-vitro samples for metabolite soft-spot identification

Anna Kerins, Simon Wood.

83. Qualitative and Quantitative Analysis of Electronic Cigarette Liquids using Gas Chromatography – Orbitrap Mass Spectrometry

Jane Cooper, Chris Allen, Cristian Cojacariu.

84. Evaluation of FPOP labelled model proteins: native and denatured spectra and global oxidation

Jake Busuttil-Goodfellow.

85. 'Assign': A new programmatic solution for automated structural assignment of small molecule product ion spectra

Kirsten Hobby.

Posters 086-100

86. Sub-residue level resolution on changes in solvent accessibility and protein structure using Fast Photochemical Oxidation of Proteins (FPOP)

Owen Cornwell, James R Ault, Sheena E Radford, Alison E Ashcroft.

87. Interaction of amyloidogenic proteins with metals studied by native top-down FTICR-MS with advanced dissociation methods

Frederik Lermyte, Francesca Bellingeri, James Everett, Jake Brooks, Mark P. Barrow, Peter J. Sadler, Neil D. Telling, Joanna F. Collingwood, Peter B. O'Connor.

88. Automated, web-based analysis and visualisation of data from a Cyclic Ion Mobility Spectrometry Travelling Wave Device.

Tristan Cragnolini, Konstantinos Thalassinos, Charles Eldrid, Hannah Britt, Thomas Menneteau.

89. The Development of Peptide Standards for Crosslinking Mass Spectrometry.

Nathanael Page, Kostas Thalassinos.

90. Use of ion mobility-mass spectrometry (IM-MS) to structurally characterise poly(L-lysine) dendrimers

F. Benoit, R. M. England, T. W. T. Bristow, P. E. Barran.

91. Tandem Ion mobility coupled with mass spectrometry for gas phase protein unfolding studies Robert Tonge, Dale Cooper-Shepherd, Martin Palmer, James Langridge.

92. Characterization of Released N-Glycans using SCIEX OS Analytics on the X500B QTOF System Catherine S Lane.

93. ELUCIDATION OF METAL BINDING REGIONS OF α -synuclein, the parkinson's disease protein, using top-down fticr mass spectrometry

Francesca Bellingeri, Frederik Lermyte, Peter O'Connor, Mark Barrow.

94. The Use of Protein Modification and Ion Mobility-Mass Spectrometry to Probe Protein Structure

Aasia Aljabiry.

95. Unravelling outer membrane protein biogenesis using structural proteomics

Antonio Calabrese.

96. An investigation into the use of cyclic ion mobility for the separation of biopharmaceutical peptide and protein modifications

James Langridge, Dale Cooper-Shepherd, Martin Palmer, Henry Shion, Weibin Chen.

97. Biomolecular Tetris: Can we probe non-covalent interactions in a protein through the non-covalent interactions in its fragments?

Anna L Simmonds, Peter J Winn, John K Heath, David H Russell, Iain B Styles, Helen J Cooper.

98. Monitoring Of DAR/ADC Attributes For Trastuzumab Emtansine

Sibylle Heidelberger, Ferran Sanchez.

99. Integrating a Chromatographic Separation for Removal of Lipids from Membrane Protein Samples into an Automated HDX MS Workflow

Malcolm Anderson.

100. Insights into structural allosteric mechanisms of large biosensors using HDX/MS. Rinky Parakra, Jonathan Phillips.

Posters 101-112

101. Utilization of shape selective separation obtained from a cyclic ion mobility enabled mass spectrometer for the characterisation of complex mixtures

Javeria Mehboob, Gillian Taylor, Safwan Akram, Martin Palmer, Jakub Ujma, Kevin Giles, Jonathan Williams, David Portwood, Pablo Navarro, Jim Scrivens.

102. Allosteric Effects of IgE Binding Observed By Hydrogen-Deuterium Exchange Mass Spectrometry

Kjeitl Hansen.

103. Could Antimalarials from the former USSR lead the fight against malaria?

Aggrey C. Nhiwatiwa, David Williams, Miron A. Leanca , Alexandra E. Kelly-Hunt, Valentina Lukinović, Philip G. Evans, Jatinder P. Bassin, David G. Griffiths, Said Alizadeh-Shekalgourabi, Roger H. Bisby, Michael G.B. Drew, Verity Male, James F. Dunn, Nicola M. Dempster, Lutfun Nahar, Satyajit D. Sarker, Sam P. de Visser, Mike J. Dascombe, Adrien Chauvet, Alistair J. Fielding, Fyaz M.D. Ismail.

104. Paper Spray Ionization Mass Spectrometry of Sebum Samples: A Step Towards Rapid, Early Diagnosis of Parkinson's Disease

Depanjan Sarkar, Drupad K Trivedi, Caitlin Walton-Doyle, Joy Milne, Eleanor Sinclair, Monty Silverdale, Perdita Barran.

105. Proteome biomarkers for reflux aspiration in cystic fibrosis

Rosemary E Maher, Robert W Lord, Victoria M. Harman, Jaclyn A. Smith, Andrew M Jones, Paul McNamara, Robert J Beynon.

106. Targeted proteomic quantitation of monoclonal antibodies in human plasma by LC-MS/MS using Fab-selective limited proteolysis nSMOL technology

Alan Barnes, Neil Loftus, Takashi Shimada.

107. Proteomic Analysis of White Fat Adipocytes and Functional Role of Detected Voltage-Gated Calcium Channels

Nneoma E. Akaniro-Ejim, Robert Layfield, Sue L. F. Chan, Paul A. Smith.

108. Investigation of the binding characteristics of three bovine carbonic anhydrase inhibitors by Native LESA mass spectrometry

Eva Illes-Toth, Christopher J. Stubbs, Anna L. Simmonds, Emma K. Sisley, Richard J. Goodwin, Helen J. Cooper.

109. Improved discovery of biomarkers of disease by TD-GC×GC-TOF MS

Laura McGregor, Anthony Buchanan, Caroline Widdowson, Massimo, Bob Green.

110. Steroid deconjugation by helix pomatia what a snail - is there a more efficient way?

Fozia Shaheen, Lorna Gilligan, Camila Berner, Jose Luis Callejas, Cedric Shackleton, Wiebke Arlt, Angela Taylor.

111. A novel method for analysis of 11 oestrogens using high-throughput liquid chromatography tandem mass spectrometry

Lorna Gilligan, Lauren Goymer, Harjeavon Toor, Grace Cox, Fozia Shaheen, Wiebke Arlt, Angela Taylor.

112. The development of a point-of-need miniaturised ESI-MS for upstream bioprocessing applications

Max Wong, Alex McIntosh.

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113. Identifying Inhibitors of Inflammation – A cellular MALDI-TOF MS drug discovery assay. Rachel Heap, Joesph Innes, Matthias Trost.

114. Method development for the identification of proteins in fingertip smears by using MALDI-MS

Cristina Russo, Laura Cole, Lynda Wyld, Simona Francese.

115. Novel serum protein biomarkers for ALS diagnosis and progression

Young Ah Goo.

116. Development of a Traceable Higher Order Reference Method for the Detection and Quantitation of Aldosterone in Plasma

Tabatha Hambidge, Chris Hopley, Jo Adaway.

117. Effect of Berberine on In Vitro Metabolism of Sulfonylureas: A herb-drug interactions study Amrinder Singh, Ajit Shah, Celia Bell, Kaicun Zhao.

118. Identification of biomarkers of an allergic reaction in peanut allergic patients using a data independent strategy

Charlotte Hands.

119. Quantification of Barnidipine in Human Plasma using Targeted LC-MS/MS

Chandrasekar Madhappan, Dilipkumar Reddy Kandula, Grace Dibden, Manoj Pillai.

120. Characterization of Cell Lines with Engineered Golgi Organization

Hannah Spencer.

121. An informatics pipeline for analysis of Sequential window acquisition of all theoretical mass spectra (SWATH-MS) in high throughput clinical research

Jade Talbot, Anthony Whetton, Dave Lee, Paul Townsend.

122. Investigation of UHPSFC-MS as a tool to understand challenging polymers used in the pharmaceutical industry

Sergio Cancho Gonzalez, Julie Herniman, Graham John Langley, Paul Ferguson, Sophie Bailes.

123. Small-molecule mutant isocitrate dehydrogenase inhibitors diminish multiple metabolic pathway differences in glioblastoma cells expressing mIDH1

James McCullagh.

124. LESA Sampling of Human Non-Alcoholic Fatty Liver Disease Tissue for the Profiling of Liver Fatty Acid Binding Protein

James Hughes, Iain Styles, Patricia Lalor, Helen Cooper.

125. A Sensitive Microflow LC/MS/MS Method for the Analysis of Corticosteroids in Human Plasma

Ting Liu, Wenhai Jin, Melissa McGuinness, Daniel Blake.

126. Characterisation of intact hemoglobin variants utilising a cyclic ion mobility-enabled quadrupole time-of-flight (Q-cIM-oaToF) mass spectrometer

Ahmad Alkawi, Gillian Taylor, Safwan Akram, Martin Palmer, Jakub Ujma, Kevin Giles, Jonathan Williams, Jim Scrivens.

127. Use as received or purify before experimentation? -The curious case of antimalarial drug binding to hemin chloride

Miron Leanca.

128. Transport and fate of an environmentally relevant mixture of antibiotics in the soil-plant system

Rachel Johnson, Ed Bergstrom, Jane Thomas-Oates, J. Brett Sallach.

Posters 129-142

129. Proteomic Characterisation of Allergens in complex food matrices

Rosemary Adaba, Anuradha Balasundram, Angela Fernandez-Otal, Bushra Javed, Chiara Nitride, Clare Mills.

130. Trace determination of Octyl&Nonyl-phenols and Ethoxylates and Bisphenol A using EQuan on-line SPE and Q Exactive Focus Orbitrap LCMSMS

Neville Llewellyn.

131. Comprehensive Characterization of Exposome Samples via GCxGC-High Resolution TOFMS Alan Griffiths, Todd Richards, Lorne Fell, David Alonso, Joe Binkley.

132. A review of pyrethroid and mitin analysis in environmental matrices by sample extraction & preparation, ELISAs with a unique focus on GC/NICI-MS.

Peter J Baugh.

133. Spatially resolved analysis of preserved lipids in archaeological ceramics by Secondary Ion Mass Spectrometry

Simon Hammann, David Scurr.

134. Novel Diagnosis Technique for Identification of Asbestos Fibres in Mesothelioma Samples using LA-ICP-MS Imaging

Oana Voloaca, Malcolm R. Clench, Laura M. Cole, Amy J. Managh, Calum Greenhalgh, Sarah Haywood-Small.

135. Proof-of-concept proteomic extraction & analysis by Direct Analyte Probed Nanoextraction-Nanoelectrospray Ionisation-Mass Spectrometry (DAPNe-NSI-MS)

Mason Malloy, Holly Lewis, James Hughes, James Hughes, Patrick Sears, Neil Ward, Josephine Bunch, Melanie Bailey.

136. Probing the nature of bacterial attachment to biomaterial surfaces Rian Griffiths.

137. MALDI-TOF Mass Spectrometry Imaging - Exploiting the Potential of Ultra High Throughput Mass Spectrometry approaches to early stage drug discovery

Carl Haslam.

138. Characteristics of MALDI-imaging on a new dual ion source QTOF with TIMS separation Alice Ly, Arne Fuetterer, Juergen Suetering, Janina Oetjen.

139. Imaging the distribution of isotopically labelled Iron in Developing Wheat Grain using NanoSIMS

Sadia Sheraz, Kexue Li, Yongfang Wan, Kirstie Halsey, Peter Shewry, Janneke Balk, Katie Moore.

140. Feasibility of integrating mass spectrometry imaging with ion beam analysis for multimodal molecular and elemental speciation

Janella de Jesus, Catia Costa, Josephine Bunch, Richard Goodwin, Vladimir Palitsin, Roger P. Webb, Melanie Bailey.

141. Interlaboratory evaluation of MALDI and DESI MSI in the CRUK Grand Challenge programme Melina Kyriazi.

142. A higher perfomance, robust and simple to use DESI-MS imaging platform with full automation for high throughput

Emrys Jones, Emmy Hoyes, Richard Chapman, Adam McMahon, Steven Pringle, Zoltan Takats.

Posters 143-156

143. Data processing tools for native LESA TWIMS and conformational imaging of proteins: Towards conformational MSI

Emma Sisley, Rian Griffiths, Iain Styles, Helen Cooper.

144. Mass Spectrometry Imaging Study of Lipid Metabolites in the Adult Mouse Testis Emmanuelle Claude.

145. Easily swappable AP-MALDI (MassTech) for targeted and untargeted MALDI HR-MS or -MSn imaging capabilities down to 10-micron lateral resolution

Gilles Frache, Dana El Assad.

146. Metabolomic/lipidomic DESI imaging of different cell cultures Mark Towers.

147. MALDI imaging of small molecules in brain tumour tissues Elisabete Pires.

148. Towards an Autonomous High-throughput Mass Spectrometry Laboratory with Large Scale Data Analysis

Spencer Thomas, Chelsea J. Nikula, Rory T. Steven, Alex Dexter, Efstathios A. Elia, Teresa I. Murta, Bin Yan, Adam J. Taylor, Tingting Fu, Kenneth N. Robinson, Spencer Thomas, Andrew D. Campbell,

Owen J. Sansom, Richard J.A. Goodwin, Simon Barry, Gregory Hamm, Zoltan Takats.

149. High-Throughput Screening of Explosive Residues Using a Robust Thermal Extraction Ionization Source (TEIS)

Neil Devenport, Pierre Negri, Peter Luke, Carl Fletcher, Ashley Sage

150. NUMERICAL STUDY OF FLUID ATOMIZATION IN A HIGH-VELOCITY SPRAY

Wei Wang, Steve Bajic, Benzi John, David Emerson.

151. A workflow-driven platform solution for MAM-based critical quality attribute (CQA) monitoring of biotherapeutics in process development and QC

Nilini Ranbaduge, Ying Qing, Min Du, Heidi Gastall, Weibin Chen.

152. Robust Quantitative Analysis of EDDP by PaperSpray Mass Spectrometry.

Zuzana Skrabakova

153. A Metabolomics-Based Method for the Analysis of Wheat Grain.

Scott Campbell

154. An investigation of industrial waste using QuEChERS and hyphenated mass spectrometry.

Krzysztof Okonski, Geertje van Keulen, Roderick Thomas, Daniel Rees, Steve Perry, Elena Jones, Sean Larkin, Ruth Godfrey.

155. Detection and Quantification of Allergens in Foods and Minimum Eliciting Doses in Food-Allergic Individuals (ThRAII)

Rosa Pilolli, Chiara Nitride, Christof Van Poucke ,Marc De Loose, Anne- Catherine Huet,Clare Mills. 156. Investigations into a Neglected Series of Potential Anti-Malarial Treatments using Negative Ion Electrospray Mass Spectrometry;

Alexandra E. Kelly-Hunt, Miron A. Leanca Aggrey C. Nhiwatiwa, David Williams, Valentina Lukinović, Philip G. Evans, Jatinder P. Bassin, David G. Griffiths, Said Alizadeh-Shekalgourabi, Roger H. Bisby, Michael G.B. Drew, Verity Male, James F. Dunn, Nicola M. Dempster, Lutfun Nahar, Satyajit D. Sarker, Sam P. de Visser, Mike J. Dascombe, Adrien Chauvet, Alistair J. Fielding, Fyaz M.D. Ismail.



Annual General Meeting

THE BRITISH MASS SPECTROMETRY SOCIETY

NOTICE OF THE BMSS ANNUAL GENERAL MEETING

The 2019 BMSS Annual General Meeting will be held at 13:00 BST on Thursday 5th September 2019 within the 40th Annual Meeting of the Society (BMSS40) in the RNCM Opera Theatre, The Royal Northern College of Music, 124 Oxford Rd, Manchester M13 9RD, United Kingdom.

AGENDA

- Minutes of the AGM held in September 2018.
- Matters arising from the Minutes.
- Chairman's Report.
- Treasurer's Report.
- Advisory Board Report.
- Election of Committee Members.
- Any Other Business.
- Date & Location of the next BMSS AGM: 13:00 BST on Thursday 10th September 2020 in the Pennine Lecture Theatre at Sheffield Hallam University, Howard Street, Sheffield, S1 2LX, United Kingdom.

Note 1:

For security reasons and to facilitate access to the Royal Northern College of Music advanced notice of attendance is required for anyone planning to attend the AGM who is not already registered as a delegate for BMSS40. Please email your contact details and ETA prior to the meeting to the BMSS Administrator.

Note 2:

Members of the BMSS wishing to raise items under AOB are asked to let the BMSS Administrator have note of them by Wednesday 21st August 2019.

Note 3:

The BMSS Administrator can be contacted at: admin@bmss.org.uk



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- Rapid analysis of complex multi-analyte samples.
- Fast enough to allow coupling to HPLC.
- Significant increase in sensitivity compared to a single scan.
- Compatible with a wide range of solvents.

We look forward to discussing 2DMS with you at BMSS4O

Look out for our competition at the conference dinner drinks reception on September 4th at the Mercure Hotel - the prize is a case of wine for 3 winners !

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The Rosalind Franklin Institute : Biological Mass Spectrometry Theme Update and Discussion

4TH SEPTEMBER 2019, SPECIAL SESSION AT THE 40TH BMSS ANNUAL MEETING ROYAL NORTHERN COLLEGE OF MUSIC FORMAN LECTURE THEATRE 10:40-12:10

Meet theme leaders and collaborators across The Rosalind Franklin Institute

Key topics:

- Franklin Biological Mass Spectrometry theme
- High Pressure Imaging on the new Franklin Instrumentation
- SIMS and related technologies
- Integration with other Franklin and partner technologies
- Applications and community engagement





THE BRITISH MASS SPECTROMETRY SOCIETY

Ambient Ionisation Mass Spectrometry 1-DAY SIG MEETING GUILFORD SURREY 06 FEBRUARY 2020

In partnership with





THE BRITISH MASS SPECTROMETRY SOCIETY

The 41st BMSS ANNUAL MEETING SHEFFIELD HALLAM UNIVERSITY 08-10 SEPTEMBER 2020

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