

POSTERS

POSTER SESSIONS WILL BE (rooms to be allocated at Cardiff)

Odd Numbered Posters – Monday 6th September

Even Numbered Posters – Tuesday 7th September

POSTER 1

MULTIPLE MASS SPEC APPROACH TO MATERIALS QUALIFICATION

N. Brandon^{1,*}

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POSTER 2

INVESTIGATION OF ION PAIR LIQUID CHROMATOGRAPHY (IP-LC) METHODS FOR OLIGONUCLEOTIDE ANALYSIS BY MASS SPECTROMETRY

A. R. Godfrey^{1,*}, A. G. Brenton^{1,2}, W. Walker³

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POSTER 3

DEVELOPMENT OF BIOMASS-DERIVED POROUS GRAPHITIC CARBON (PGC) COLUMNS AS LC-MS/MS SEPARATIONS MEDIA

A. S. Marriott^{1,2,*}, A. J. Hunt², V. L. Budarin², J. H. Clark², E. Bergström¹, J. Thomas-Oates¹

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POSTER 4

ADJUSTING SELECTIVITY WITH COLUMN CHEMISTRY IN LC/MS

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POSTER 5

SEPARATION OF PHOSPHO AND GLYCO PEPTIDES USING POROUS GRAPHITIC CARBON FOR THE PROTEOMIC STUDY OF ONCOLOGY PATIENTS

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POSTER 6

COMPARISON OF WCOT AND PLOT COLUMNS FOR THE GC/MS ANALYSIS OF BENZENE IN SOFT DRINKS

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POSTER 7

PEAK CAPACITY VERSUS SPEED IN HPLC AND UHPLC FOR HIGH THROUGHPUT BIOANALYSIS

K. C. Saunders^{1,*}, M. Woodruff², K. Butchart²

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POSTER 8

DETERMINATION OF COLLISION CROSS SECTIONS FOR METAL-LIGAND COMPLEXES USING ION MOBILITY-MASS SPECTROMETRY

V. E. Wright^{1,*}, J. C. Reynolds¹, S. D. R. Christie², C. S. Creaser¹

POSTER 9

LC/MS ANALYSIS OF EXPLOSIVES: PAST, PRESENT AND FUTURE.

Dr Patrick Sears*, Dr Matthew Beardah, Dr Andrew Crowson, Dr Sinead Hardy, Sarah Poulton

POSTER 10

UHPLC PERFORMANCE ON HPLC-MS INSTRUMENTATION

Yaling Cheng;

Research Analytics, ParmaTherapeutics, Pfizer, Sandwich, UK

POSTER 11

MALDI-MS IMAGING: AN INNOVATIVE TOOL FOR STUDYING DRUG DISTRIBUTION IN RESPIRATORY TISSUE

J. Morrell^{1,*}, P. Marshall², L. Ranshaw¹

¹Respiratory CEDD DMPK, ²Biomolecular Structure, GLAXOSMITHKLINE, Stevenage, United Kingdom

POSTER 12**PARAMETERISATION OF A NOVEL LIQUID SAMPLING SYSTEM FOR IMAGING OF BIOLOGICAL SYSTEMS**

A. D. J. Williams^{1,*}, A. G. Brenton¹, A. R. Godfrey¹ and Institute of Mass Spectrometry

¹Institute of Mass Spectrometry, School of Medicine, SWANSEA UNIVERSITY, Swansea, United Kingdom

POSTER 13 – No poster**POSTER 14****INVESTIGATION OF DRIFT GAS EFFECTS ON MYOGLOBIN IONS IN ION MOBILITY MASS SPECTROMETRY**

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¹School of Chemistry, UNIVESITY OF EDINBURGH, Edinburgh, United Kingdom

POSTER 15**PROBLEMS MEASURING ANALYTES BY LC-MS? TRY EC-ASSISTED LC-MS!**

I. N. Acworth¹, P. H. Gamache², N. A. Ramsey^{3,*}

¹Applications, ²Research and Dvelopment, ESA - A DIONEX COMPANY, Chelmsford, ³Technical Support, Dionex Corp, Camberely, United States

POSTER 16**ENHANCED APCI ON A NOVEL ION SOURCE DESIGN**

S. Bajic^{1,*}, S. S. Bangar²

¹Research, ²Marketing, WATERS CORPORATION, Manchester, United Kingdom

POSTER 17**A UNIFIED ALGORITHM FOR DECONVOLUTING ELECTROSPRAY IONIZATION MASS SPECTRAL DATA**

K. D. Richardson^{1,*}, J. M. Brown¹, I. D. G. Campuzano¹, B. N. Green¹, J. L. Wildgoose¹, J. C. Skilling²

¹Waters Corporation, Manchester, United Kingdom, ²Maximum Entropy Data Consultants Ltd., Kenmare, Ireland

POSTER 18**DART MASS SPECTROMETRY: THE ULTRA FAST DETERMINATION OF THE ACTIVE INGREDIENTS OF PHARMACEUTICALS**

E. S. Chernetsova^{1,*}, P. O. Bochkov¹, M. V. Ovcharov¹

¹People's Friendship University of Russia, Moscow, Russian Federation

POSTER 19**CHARACTERISING EARLY OLIGOMERS FORMED IN THE FIBRILLATION PROCESS BY MASS SPECTROMETRY**

H. Cole^{1,*}, J. Kalapothakis¹, T. Smith¹, P. Barran¹, C. MacPhee²

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POSTER 20**ANALYSIS OF POLYCHLORINATEDBIPHENYLS WITH AN ELECTRON IMPACT IONISATION SOURCE ON AN IMS ENABLED HIGH-RESOLUTION QTOF MASS SPECTROMETER**

G. R. Jones^{1,*}, M. Green¹, R. Bateman¹, K. Worrall², K. D'Silva²

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POSTER 21**A NEW LINEAR QUADRUPOLE ION TRAP WITH AXIAL EJECTION**

D. Langridge^{1,*}, J. Wildgoose¹

¹WATERS, Manchester, United Kingdom

POSTER 22**BREAKTHROUGH PRODUCTIVITY FOR ADME STUDIES WITH THE NEW AB SCIEX TRIPLETOF™ 5600 SYSTEM**

S. J. Lock^{1,*}

¹Technical Support, AB SCIEX, Pudsey, United Kingdom

POSTER 23**STRUCTURE ELUCIDATION WITH AN ULTRA-HIGH RESOLVING TOF INSTRUMENT BY ALTERNATING MS AND BROAD-BAND CID ANALYSES**

G. McLeod^{1,*}, P. Sander², I. Krebs², S. Goetz², B. Schneider²

¹BRUKER UK LTD, Coventry, United Kingdom, ²Bruker Daltonik GmbH, Bremen, Germany

POSTER 24**INVESTIGATING ISOTOPE RATIOS USING AN LTQ-ORBITRAP XL**

C. M. Williams^{1,*}, A. R. Godfrey², A. G. Brenton^{1,2}

¹EPSRC National Mass Spectrometry Service Centre, ²Institute of Mass Spectrometry, Swansea University, Swansea, United Kingdom

POSTER 25**COMPARISON OF CHARGE-TRANSFER MATRICES FOR THE GENERATION OF VERY LARGE RADICAL CATIONS (>100 KDA) BY MALDI-TOFMS**

M. F. Wyatt^{1,*}, J. P. Gunning², P. L. Burn³, J. Robertson²

¹EPSRC National Mass Spec. Service Centre, SWANSEA UNIVERSITY, Swansea, ²Department of Chemistry, University of Oxford, Oxford, United Kingdom, ³Centre for Organic Photonics & Electronics, University of Queensland, Brisbane, Australia

POSTER 26**A 'FIRST-PRINCIPLES' APPROACH TO THE ANALYSIS OF RAW LC-MS DATA**

Andreas Ipsen, Elizabeth J. Want and Timothy M. D. Ebbels

Biomolecular Medicine, Department of Surgery & Cancer, Faculty of Medicine, Sir Alexander Fleming Building, Imperial College London, SW7 2AZ, United Kingdom

POSTER 27**ANALYSIS OF A SOL-GEL SOLUTION BY GC/MS AND PYROLYSIS GC/MS FOR COATING APPLICATIONS**

G O'Connor - Innovia Films, Station Road, Wigton, Cumbria, CA7 9BG

POSTER 28**METAL BINDING OF MODEL CYS2HIS2 ZINC-FINGER PEPTIDES IN THE GAS PHASE**

Y. Berezovskaya^{1,*}, C. Armstrong², A. Boyle², D. Woolfson^{2,3}, P. Barran¹

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POSTER 29**STRATEGIES TOWARDS THE INDIRECT DETECTION OF THERAPEUTIC SIRTINAS USING CLEAVABLE SMALL MOLECULE MASS TAGS**

J. Riley^{1,*}, T. Brown¹, G. T. Clark², G. J. Langley¹

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POSTER 30**AUTOMATED SCREENING OF PHASE I AND II METABOLISM USING ON-LINE ELECTROCHEMISTRY/LC/MS**

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POSTER 31**SIMULATING OXIDATIVE METABOLISM USING ON-LINE ELECTROCHEMISTRY/MASS SPECTROMETRY**

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POSTER 32**A NOVEL ALGORITHM FOR AUTOMATED HIGH-THROUGHPUT QUANTITATIVE MS/MS OPTIMIZATION INCORPORATING SATURATION CONTROL**

S. J. Lock¹, D. Leigh^{2,*}, A. Romanelli³, K. Shirey⁴, J. Janiszewski⁵

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POSTER 33**MASS SPECTROMETRIC TOP-DOWN PROTEIN SEQUENCING DE NOVO: THE FULL DETERMINATION OF A 13.7 KDA CAMELID NANOBODY SEQUENCE**

L. Main^{1,*}, A. Resesmann², G. Shi³, D. Wunderlich², J. Fuchser², D. Suckau²

¹BRUKER UK LTD, Coventry, United Kingdom, ²Bruker Daltonik GmbH, Bremen, Germany, ³Bruker Daltonics Inc., Fremont, United States

POSTER 34**IMPROVED IDENTIFICATION OF MULTICELLULAR FUNGI USING LIQUID CULTURING AND MALDI-TOF MASS SPECTROMETRY PROFILING**

E. Tranfield^{1,*}, T. Maier², V. Bieltcher², S. Fu³, M. Kostrzewa²

¹BRUKER UK LTD, Coventry, United Kingdom, ²Bruker Daltonik GmbH, Bremen, Germany, ³Bruker Daltonics, Billerica, United States

POSTER 35**DEVELOPMENT AND APPLICATION OF A METHOD FOR ANALYSIS OF CELLULAR MODELS OF CONGENITAL DISORDERS OF GLYCOSYLATION BY MASS SPECTROMETRY**S. Abdul Rahman^{1,2,*}, D. Ungar², E. Bergstrom¹, J. Thomas-Oates¹¹Centre of Excellence in Mass Spectrometry and Department of Chemistry, ²Department of Biology, UNIVERSITY OF YORK, YORK, United Kingdom**POSTER 36****ON-LINE ELECTROCHEMICAL/LC-MS TECHNIQUES FOR PROFILING AND CHARACTERIZING METABOLITES AND REACTIVE SPECIES**I. N. Acworth¹, P. H. Gamache², N. A. Ramsey^{3,*}¹Applications, ²Research and Development, ESA - A DIONEX COMPANY, Chelmsford, United States, ³Technical Support, Dionex Corp, Camberely, United Kingdom**POSTER 37****DEVELOPMENT OF A HIGH-THROUGHPUT MICROSOMAL REACTIVE METABOLITE SCREEN**

Joanne Barclay, Paula Wiebkin, Phil Butler and Caroline Weir. Cyprotex, 15 Beech Lane, Macclesfield, Cheshire, SK10 2DR

POSTER 38**EXPLORING THE POTENTIAL OF MALDI-TOF MS AS A PROCESS ANALYTICAL TOOL FOR RAPID DETECTION AND IDENTIFICATION OF MICROBIAL CONTAMINATION IN PHARMACEUTICAL PRODUCTS.**C. Bell^{1,*}¹Biopharmaceutical Bioprocessing Technology Centre, NEWCASTLE UNIVERSITY, Newcastle upon Tyne, United Kingdom**POSTER 39****MASS SPECTROMETRY-BASED IMAGING APPROACHES TO SPATIAL LOCALISATION OF DRUGS AND METABOLITES IN TISSUE**E. Q. Blatherwick^{1,*}, J. M. Day², M. K. Johansson³, D. J. Weston², J. H. Scrivens¹¹Biological Sciences, UNIVERSITY OF WARWICK, Coventry, ²Clinical Pharmacology and DMPK, AstraZeneca R&D Charnwood, Loughborough, United Kingdom, ³Clinical Pharmacology and DMPK, AstraZeneca R&D Södertälje, Södertälje, Sweden**POSTER 40****DISCOVERY OF TUBERCULOSIS BIOMARKERS IN HUMAN PLASMA USING THE LTQ-ORBITRAP VELOS**D. J. Britton^{1,*}, G. Laing²¹European Training Institute, Thermo Fisher Scientific, Hemel Hempstead, ²Molecular and Biochemical Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom**POSTER 41****THE QUANTIFICATION OF PROTEIN FOLDING STATES USING OF MASS SPECTROMETRIC TECHNIQUES: COMPARISON OF CURRENT METHODS**W. Burkitt^{1,*}, C. Pritchard¹, M. Quaglia¹, G. O'Connor¹¹LGC, London, United Kingdom**POSTER 42****A DIRECT COMPARISON BETWEEN AN ORBITRAP LTQ AND API4000 TO QUANTIFY TRACE LEVELS OF DIFFERENT ANALYTES IN A BIOLOGICAL MATRIX.**D. Carrier^{1,*}¹Bioanalysis, QUOTIENT BIORESEARCH, Cambridgeshire, United Kingdom**POSTER 43****INVESTIGATING PROTEIN-PEPTIDE BINDING BY TOP-DOWN FT-ICR MS, ION-MOBILITY MS AND HYDROGEN/DEUTERIUM EXCHANGE**D. J. Clarke^{1,*}, E. Murray², T. Hupp², P. Barran¹, P. Langridge-Smith¹, L. Mackay¹¹Chemistry, ²UNIVERSITY OF EDINBURGH, Edinburgh, United Kingdom**POSTER 44****IN-SITU TISSUE TRYPTIC DIGESTION TO FACILITATE PEPTIDE ANALYSIS USING MALDI-MS TECHNIQUES TO INVESTIGATE PROTEIN INDUCTION IN TUMOUR VASCULAR TARGETED STRATEGIES**L. M. Cole^{1,*}, M.-C. Djidja², J. Bluff³, E. Claude⁴, V. Carolan¹, M. Paley⁵, G. M. Tozer³, M. R. Clench¹¹BMRC, SHEFFIELD HALLAM UNIVERSITY, Sheffield, ²The Institute of Cancer Research, London, ³Tumour Microcirculation Group, Dep of Oncology, University of Sheffield, Sheffield, ⁴Waters Corporation, Manchester, Manchester, ⁵Academic Radiology, Dep of Human Metabolism, University of Sheffield, Sheffield, United Kingdom**POSTER 45****COUPLING LIQUID AND GAS PHASE SEPARATION; A NEW PARADIGM FOR THE COMPREHENSIVE QUANTITATIVE ANALYSIS OF PROTEOMES**K. Compson^{1,*}, T. McKenna¹, C. Hughes¹, J. Langridge¹¹WATERS CORPORATION, Manchester, United Kingdom

POSTER 46**ANALYSIS OF DESMOSINE AND ISODESMOSINE BY ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY HYPHENATED WITH ION MOBILITY-MASS SPECTROMETRY.**

N. A. Devenport^{1,*}, V. Parkash¹, J. C. Reynolds¹, J. Cook², D. J. Weston², C. S. Creaser¹

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POSTER 47**MALDI-MASS SPECTROMETRY IMAGING OF HYPOXIA AND METASTASIS-ASSOCIATED PROTEINS COMBINED WITH QUANTITATIVE MS**

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POSTER 48**METABOLITE PROFILING OF CLINICALLY APPLIED MAGGOT SECRETIONS: AN INSIGHT INTO THE ROLE OF METABOLITES IN INCREASED ANGIOGENESIS**

E. Dudley^{1,*}, A. Bond², A. Bexfield², Y. Nigam², R. Newton², N. Ratcliffe², C. Morgan², J. Wagstaff²

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POSTER 49**LIPID IMAGING BY MALDI IMS MS IS ENHANCED WITH IMPROVEMENTS IN MS AND ION MOBILITY RESOLUTION**

I. J. Edwards^{1,*}, E. Claude¹, I. Campuzano¹, T. McKenna¹, J. I. Langridge¹

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POSTER 50**CHARACTERISATION OF HUWENTOXIN-IV SPIDER TOXIN BY ACCURATE MASS MS/MS FOLLOWING A REDUCTION AND ALKYLATION SCREEN.**

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POSTER 51**AN INTEGRATIVE PROTEOMIC AND GENOMIC APPROACH TO IDENTIFY ROBUST PEPTIDE/PROTEIN BIOMARKERS FOR THE DETECTION OF CLOSTRIDIUM BOTULINUM**

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POSTER 52**DETECTION AND MAPPING OF PEPTIDES AND SMALL PROTEINS IN LATENT FINGERMARKS BY MALDI MSI**

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POSTER 53**ADVANCES IN METABOLITE IDENTIFICATION UTILIZING ENHANCED ION-MOBILITY SEPARATIONS COUPLED WITH HIGH RESOLUTION QTOF MASS SPECTROMETRY**

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POSTER 54**LABEL-FREE PROTEOMIC COMPARISON OF CELL EXTRACTS DURING NORMAL HUMAN UROTHELIAL CELL DIFFERENTIATION**

C. Fishwick^{1,2,*}, D. Ashford³, J. Southgate², J. Thomas-Oates¹

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POSTER 55**TOWARDS MALDI-MSI OF PENILE CANCER TISSUE**

B. Flatley^{1,2,*}, M. W. Towers¹, P. Malone², R. Cramer¹

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POSTER 56**THE USE OF HYDRAZINE BASED DERIVATISATION REAGENTS FOR IMPROVED SENSITIVITY AND DETECTION OF CARBONYL CONTAINING COMPOUNDS "ON-TISSUE" USING MALDI-MS**

B. Flinders^{1,*}, P. S. Marshall², J. Morrell², L. E. Ranshaw², M. A. Khan¹, M. R. Clench¹

¹Biomedical Research Center, SHEFFIELD HALLAM UNIVERSITY, Sheffield, ²GlaxoSmithKline, Stevenage, United Kingdom

POSTER 57**MALDI MSI: A NOVEL METHOD TO PROCESS LATENT FINGERMARKS**

S. Francese^{1,*}, L. Ferguson¹, R. Bradshaw¹, R. Wolstenholme¹, M. R. Clench¹

¹BMRC, SHEFFIELD HALLAM UNIVERSITY, Sheffield, United Kingdom

POSTER 58**HIGH SPATIAL AND SPECTRAL RESOLUTION MALDI MASS SPECTROMETRY IMAGING: APPLICATIONS TO PHARMACEUTICAL AND PROTEOMIC ANALYSIS**

R. Goodwin^{1,*}, A. Pitt¹, M. Witt², J. Fuchser², P. Langridge-Smith³, C. L. Mackay³

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POSTER 59**EVALUATION OF PROTEIN DEPLETION STRATEGIES IN PLASMA DERIVED FROM PATIENTS WITH BLADDER CANCER**

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POSTER 60**DIRECT TISSUE PROFILING AND IMAGING OF HUMAN SKIN BY MALDI-MS: A POTENTIAL TOOL FOR THE CLASSIFICATION OF CHEMICAL IRRITANTS AND SENSITIZERS**

P. J. Hart^{1,*}, D. M. Anderson¹, E. Claude², S. Francese¹, M. N. Woodroffe¹, M. R. Clench¹

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POSTER 61**DESIGN AND APPLICATION OF NOVEL BROMINATED CHEMICAL TAGS FOR PROTEOME ANALYSIS**

S. Hudson^{1,*}, F. Chadbourne¹, E. Pflimlin¹, J. Thomas-Oates¹, A. Routledge¹, S. Flitsch², R. Castangia², R. Sardzik²

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POSTER 62**IMPROVING CHROMATOGRAPHIC AND MASS SPECTROMETRIC RESOLUTION FOR THE RELATIVE AND ABSOLUTE QUANTIFICATION OF PROTEINS ASSOCIATED WITH CELLULAR HYPOXIA**

G. Kaur-Atwal^{1,*}, J. B. Connolly¹, C. Hughes¹, T. McKenna¹, J. Langridge¹, L. Tate², S. Critchlow², R. Rowlinson², T. Dunkley²

¹Waters Corporation, Manchester, ²AstraZeneca, Macclesfield, United Kingdom

POSTER 63**A MASS SPECTROMETRY STUDY OF THE INTERACTIONS BETWEEN A PROKARYOTIC PRIMASE, SSDNA AND NUCLEOTIDE TRIPHOSPHATES: NEW TOOLS FOR OLD PROBLEMS**

R. Kerr^{1,*}, A. R. McKay¹

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POSTER 64**SINGLE CELL ANALYSIS IN PLANTS USING PROTEOMIC AND METABOLOMIC APPROACHES**

O. Koroleva^{1,*}, R. Cramer¹

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POSTER 65**NEW APPROACHES IN HIGH-RESOLUTION LIPID PROFILING USING DART-FTMS AND LESA-FTMS OF HUMAN SAMPLES**

A. Koulman^{1,*}, M. Eiden¹, M. Masoodi¹, L. Bluck²

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POSTER 66**EXTENDING LC-MS/MS LINEAR DYNAMIC RANGE FOR QUANTITATIVE ANALYSIS OF DRUGS IN DRIED BLOOD SPOT SAMPLES**

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POSTER 67**HIGH PERFORMANCE AT HIGHEST SPEEDS FOR PROTEIN IDENTIFICATION IN COMPLEX MATRICES**

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POSTER 68**STEREOCHEMISTRY OF JMJD6 CATALYSED LYSYL HYDROXYLATION**

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POSTER 69**ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY-ION MOBILITY-MASS SPECTROMETRY PROFILING OF THE SALIVARY METABONOME.**A. V. Malkar^{1,*}, J. C. Reynolds¹, C. S. Creaser¹¹Centre for Analytical Science, Department of Chemistry, Loughborough University, Loughborough, LE11 3TU, United Kingdom**POSTER 70****DEALING WITH ION SUPPRESSION EFFECTS IN TISSUE ANALYSIS - MALDI IMAGING AND LESA WITH NESI-MS**P. Marshall^{1,*}, J. Morrell², L. Ranshaw³, V. Toteu-Djomte¹¹GLAXOSMITHKLINE, Stevenage, United Kingdom, ²Resp DMPK, ³Resp. DMPK, GLAXOSMITHKLINE, Stevenage, United Kingdom**POSTER 71****MECHANISTIC CHARACTERISATION OF THE BI-FUNCTIONAL ANTIBIOTIC SIMOCYCLINONE D8 BINDING TO THE A SUBUNIT OF DNA GYRASE: EVIDENCE FOR POSITIVE COOPERITIVITY**A. R. Mckay^{1,*}, M. Edwards², M. Williams³, A. Maxwell⁴¹Chemistry, UNIVERSITY COLLEGE LONDON, London, ²School of Biological Sciences, University of East Anglia, Norwich,³Department of Biological Sciences, Birkbeck, University of London, London, ⁴Department of Biological Chemistry, John Innes Centre, Norwich, United Kingdom**POSTER 72****OXYSTEROLS IN DEVELOPING AND MATURE RODENT BRAIN**A. Meljon^{1,*}¹School Of Medicine, SWANSEA UNIVERSITY, Swansea, United Kingdom**POSTER 73****PROXIMITY EFFECTS IN ELECTRON IMPACT MASS SPECTRA OF CINNAMIC ACIDS AND RELATED COMPOUNDS**A. Michalik^{1,*}, R. D. Bowen¹, R. T. Gallagher²¹Chemical and Forensic Sciences, University of Bradford, Bradford, ²AstraZeneca, Macclesfield, United Kingdom**POSTER 74****HIGH RESOLUTION MALDI IMAGING OF ION DISTRIBUTIONS IN TISSUE SECTIONS USING LASERS WITH REPETITION RATES OF 1 AND 8 KHZ**P. Murray^{1,*}, E. Claude¹, D. Kenny¹, J. Brown¹¹WATERS CORPORATION, Manchester, United Kingdom**POSTER 75****INVESTIGATING SUBSTRATE EFFECT ON THE ADHESION AND FORMATION OF ECOLI K12 BIOFILMS BY MALDI-MS IMAGING**J. R. A. Newton^{1,*}¹Biomedical Research Centre, SHEFFIELD HALLAM UNIVERSITY, Sheffield, United Kingdom**POSTER 76****PRACTICAL ASPECTS OF ANALYZING MEDIUM SIZE NEUROPEPTIDES BY NANO-LC-QTOF MS: MONITORING MULTIPLE CHARGED IONS. A CASE STUDY OF CGRP AND VIP**D. Abaye^{1,*}, F. Pullen¹, B. V. Nielsen¹¹science, UNIVERSITY OF GREENWICH, Chatham, United Kingdom**POSTER 77****ANALYSIS OF OXYSTEROLS AND CHOLESTENOIC ACIDS IN PLASMA AND CSF BY CHARGE-TAGGING AND LC-MSN**W. J. Griffiths¹, M. Ogundare^{1,*}, A. Lockhart², J. Sjövall³, Y. Wang¹¹Institute of Mass Spectrometry, Swansea University, Swansea, ²Translational Medicine, GlaxoSmithKline R&D China, Cambridge, United Kingdom, ³Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden**POSTER 78****CHARACTERIZATION AND QUANTITATION OF THERAPEUTIC ANTIBODY AGGREGATES BY HIGH MASS MALDI MASS SPECTROMETRY**C. Ryan^{1,*}, R. Wenzel¹, J. Weber¹, A. Nazabal¹¹COVALX, Zürich-Schlieren, Switzerland**POSTER 79****SIMULTANEOUS DETERMINATION OF FOUR ISOFLAVONES IN RAT PLASMA BY LC-ESI-MS/MS: ASSAY DEVELOPMENT, VALIDATION AND APPLICATION TO PHARMACOKINETIC STUDY**S. P. Singh^{1,*}, W. Wahajuddin¹, G. K. Jain¹¹Pharmacokinetics and Metabolism, CENTRAL DRUG RESEARCH INSTITUTE INDIA, Lucknow, India

POSTER 80**UNCOVERING HIDDEN SECONDARY METABOLITES FROM MYXOBACTERIA USING HIGH-RESOLUTION CHROMATOGRAPHY AND MASS SPECTROMETRY**

G. McLeod^{1,*}, D. Krug^{2,2}, N. Cortina², Z. Gabriela³, A. Barsch³, S. Yates⁴, R. Mueller²

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POSTER 81**QUALITY CONTROL OF INTACT RECOMBINANT PROTEINS USING SENSITIVE HIGH-RESOLUTION MASS SPECTROMETRY**

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POSTER 82**CHARACTERIZATION OF NEUTRAL AND ACIDIC GLYCOPEPTIDES BY ZIC-HILIC ENRICHMENT AND MASS SPECTROMETRY**

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POSTER 83**INVESTIGATING MECHANISMS OF COVALENT BINDING: DETECTION AND IDENTIFICATION OF DRUG-PROTEIN ADDUCTS**

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POSTER 84**HYBRID ANALYSIS COMBINING NANO ESI AND QUANTITATIVE PROTEOMICS PROVIDES EVIDENCE FOR COORDINATED BINDING OF CHAPERONES DURING ASSEMBLY AND MATURATION OF THE PROTEASOMAL REGULATORY PARTICLE**

F. Stengel^{1,*}, E. Sakata², M. Zhou¹, Y. Saeki³, F. Förster², K. Tanaka³, W. Baumeister², C. V. Robinson¹

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POSTER 85**NEW METHOD FOR 15N AMMONIA ANALYSIS USING GC-MS**

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POSTER 86**AUTOMATIC METABOLITE STRUCTURE ELUCIDATION**

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POSTER 87**HIGH FIELD FOURIER TRANSFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY FOR THE STUDY OF TAILINGS POND WATER**

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POSTER 88**THE OPTIMISATION OF MULTI-RESIDUE EXTRACTION PROTOCOLS FOR THE ANALYSIS OF VETERINARY PRODUCTS BY LC-MS2**

V. H. Brooks^{1,*}, F. Pullen¹, D. Wray¹, S. Leharne¹

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POSTER 89**ENVIRONMENTAL WILDLIFE PROTECTION: PESTICIDE POISONING IDENTIFIED USING A BROAD-SCOPE UPLC-TOF SCREENING APPROACH**

J. Cardwell^{1,*}, G. Keenan², A. Giela², M. Taylor², J. Watson², E. Riches¹, J. Morphet¹, P. Silcock¹, P. Hancock¹, H. Major¹

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POSTER 90**MASS SPECTROMETRY OF N-(2-HYDROXYETHYL)HYDROXYLAMINE [HOCH₂CH₂NHOH]**

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POSTER 91**THE DETECTION OF VETERINARY RESIDUES IN MEAT USING ON LINE SPE IN COMBINATION WITH LC/MS/MS ANALYSIS**S. J. Lock^{1,*}, A. Martinez², F. Mocholí²¹Technical Support, AB SCIEX, Pudsey, United Kingdom, ²SAILab, Barcelona, Spain**POSTER 92****THE ANALYSIS OF AIR AND SOLVENT SENSITIVE COMPOUNDS USING AN INERT ATMOSPHERIC PRESSURE SOLIDS ANALYSIS PROBE (IASAP)**J. Mosely^{1,*}, P. Stokes¹, D. Parker¹¹chemistry, DURHAM UNIVERSITY, DURHAM, United Kingdom**POSTER 93****RAPID DETERMINATION OF FOOD ID AND CONTAMINANTS BY DIRECT ANALYSIS IN REAL TIME**E. Crawford^{1,*}, B. Musselman¹, J. Krechmer¹¹IonSense, Saugus, United States**POSTER 94****ROUTINE APPLICATION OF UPLC QTOF MS FOR THE QUANTITATIVE DETERMINATION OF MULTIPLE PESTICIDE RESIDUES THAT MAY REMAIN IN OR ON OUR FOOD**K. B. Reid^{1,*}, M. J. Taylor¹, G. A. Keenan¹, A. Giela¹¹CHEMISTRY, Science and Advice for Scottish Agriculture (SASA), a Division of the Scottish Government, Rural Payments and Inspections Directorate, Edinburgh, United Kingdom**POSTER 95****EVALUATION OF PERFORMANCE AND BENEFIT OF ULTRAHIGH-RESOLUTION ESI-TOFMS COUPLED TO FAST CHROMATOGRAPHY IN THE APPLICATION OF FORENSIC SCREENING**G. McLeod^{1,*}, K. Kellersberger², A. Pelander³, P. Decker⁴, C. Baessmann⁴¹BRUKER UK LTD, Coventry, United Kingdom, ²Bruker Daltonics, Billerica, United States, ³University of Helsinki, Helsinki, Finland,⁴Bruker Daltonik GmbH, Bremen, Germany**POSTER 96****SUB PPT LIMITS OF QUANTITATION WITH NEW SETUP FOR WATER ANALYSIS USING ESI-TOF FULL SCAN ACCURATE MASS SCREENING**G. McLeod^{1,*}, O. Raether², P. Decker²¹BRUKER UK LTD, Coventry, United Kingdom, ²Bruker Daltonik GmbH, Bremen, Germany**POSTER 97****ANALYSIS OF WHISKY BY ELECTROSPRAY FT-ICR MASS SPECTROMETRY: PROOF OF ORIGIN BY STATISTICAL METHODS**M. Witt^{1,*}, J. Fuchser², R. Pappe³¹FTMS Applications, ²FTMS Application Development, ³Application Development, BRUKER DALTONIK GMBH, Bremen, Germany**POSTER 98****ANALYSIS OF GASOIL BY GC/APCI-FT-ICR MASS SPECTROMETRY**M. Witt^{1,*}, T. Arthen-Engeland²¹FTMS Applications, ²ESI Application Development, BRUKER DALTONIK GMBH, Bremen, Germany**POSTER 99****DETERMINATION OF TOXICANTS IN TOBACCO SMOKE BY GC/MS**C. Wright¹, L. Bishop^{1,*}¹Research Support Services, BAT GROUP R&D, Southampton, United Kingdom**POSTER 100****MATRIX X – A NEW STAGE IN INORGANIC MALDI?**A. D. Warren¹, P. J. Gates^{1,*}, S. Walton², D. J. Mitchell²¹School of Chemistry, BRISTOL UNIVERSITY, Bristol, ²Directorate of Science and Technology, AWE, Aldermaston, Reading, United Kingdom**POSTER 101****VERIFICATION OF CANDIDATE BIOMARKERS OF TRIPLE NEGATIVE BREAST CANCER BY IMMUNO-PRECIPITATION COUPLED WITH MULTIPLE REACTION MONITORING ASSAY**E. Adewuyi^{1,*}, M. Metodiev¹¹Biological Sciences, UNIVERSITY OF ESSEX, Colchester, United Kingdom

POSTER 102**SEARCHING THE HUMAN PROTEOME FOR DIAGNOSTIC BIOMARKERS USING A LABEL-FREE LC-MSE APPROACH**

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POSTER 103**DEVELOPMENT OF A HIGH-THROUGHPUT MICROSOMAL REACTIVE METABOLITE SCREEN.**

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POSTER 104**STABILITY OF PHARMACOKINETIC STUDIES DATA OBTAINED USING HPLC/MS/MS SYSTEMS WITH TRIPLE QUADRUPOLE MASS SPECTROMETERS**

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POSTER 105**TARGETED METABOLOMIC ANALYSIS OF URINARY MODIFIED NUCLEOSIDES**

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POSTER 106**ANALYSIS OF ACITRETIN USING MS3 BASED QUANTITATION**

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POSTER 107**PROTEOMIC ANALYSIS OF THE SECRETOME IN AN EXPLANT MODEL OF CANINE CARTILAGE INFLAMMATION**

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POSTER 108**QUANTITATIVE VALIDATION OF PROTEINS IDENTIFIED IN THE SECRETOME OF EQUINE ARTICULAR CARTILAGE**

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POSTER 109**INCREASING THE SELECTIVITY OF CLENBUTEROL DETECTION IN URINE SAMPLES BY USING LC/MS/MS IN MRM3 MODE**

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POSTER 110**RAPID LC-MS/MS METHOD FOR THE ANALYSIS OF THC, THC-OH AND THC-COOH IN URINE**

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POSTER 111**FORENSIC MULTI-TARGET SCREENING AND GENERAL UNKNOWN SCREENING ON AN LC/MS/MS SYSTEM WITH AUTOMATIC LIBRARY SEARCHING FOR COMPOUND IDENTIFICATION**

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POSTER 112**BIOMARKERS OF IONIZING RADIATION**

T. Remsen¹, N. Sobol¹, J.-L. Oprihory¹, A. Yuen¹, M. Yee¹, D. Weissman¹, D. C. Miller¹, J. D. Robertson², P. H. Pevsner^{1,*}

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POSTER 113**MASS SPECTROMETRY OF BENIGN COLORECTAL POLYPS TO EXCLUDE MALIGNANCY**

T. Remsen¹, J.-L. Oprihory¹, A. Yuen¹, N. Sobol¹, M. Yee¹, D. Weissman¹, S. Anand², D. C. Miller¹, P. H. Pevsner^{1*}

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POSTER 114**A MASS SPECTROMETRY-BASED APPROACH TO HEMOGLOBINOPATHY DETECTION**

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POSTER 115**A REVISED STRATEGY FOR ROUTINE SCREENING OF DRUGS OF ABUSE IN URINE**

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POSTER 116**AUTOMATED DETECTION OF MIXED CULTURES OF MICROORGANISMS FROM POSITIVE BLOOD CULTURES USING MALDI-TOF MASS SPECTROMETRY**

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POSTER 117**CHASING THE END OF THE RAINBOW: SIMULTANEOUS ANALYSIS OF ENDOGENOUS AND 'DESIGNER' ANABOLIC STEROIDS IN DOPING CONTROL.**

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POSTER 118**DIFFERENTIATION OF COMMERCIAL PARACETAMOL TABLETS USING OF UPLC-TOFMS ANALYSIS AND CHEMOMETRIC DATA EVALUATION**

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POSTER 119**TOF-SIMS FOR BIOLOGICAL ANALYSIS – NOVEL INSTRUMENTATION FOR 2 AND 3D IMAGING MASS SPECTROMETRY.**

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POSTER 120**EVALUATION OF PERFORMANCE AND BENEFIT OF ULTRAHIGH-RESOLUTION ESI-MS COUPLED TO FAST CHROMATOGRAPHY IN THE APPLICATION OF FORENSIC SCREENING**

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POSTER 121**SUB PPT LIMITS OF QUANTITATION WITH NEW SETUP FOR WATER ANALYSIS USING ESI-TOF FULL SCAN ACCURATE MASS SCREENING**

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POSTER 122**MULTI-TARGET SCREENING OF UP TO 500 PESTICIDES IN A SINGLE LC/MS RUN BY EXACT ION TRACES**

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