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25th Australian and New Zealand
Society for Mass Spectrometry
6th Asia Oceania Mass Spectrometry
CONFERENCE 19-22 July 2015
BRISBANE CONVENTION &
EXHIBITION CENTRE

PROGRAM

SUNDAY 19TH JULY	
1300	Registration Opens (Boulevard Level Foyer)
1350	PLENARY SESSION: SUN1 (Boulevard Auditorium) Chairs: Dr Andrew McAnoy & Prof Stephen Blanksby
1350	Welcome and announcements Convenor; ANZSMS president
1400	<i>Gas-phase Studies on Distonic Di-, Tri- and Tetraradical Cations</i> Prof Hilka Kenttamaa [USA]
1445	<i>Imaging MS and Ion Mobility-MS Metabolomics for Detecting Ovarian Cancer</i> Dr Facundo Fernandez [USA]
1530	Afternoon tea Poster Session 1 - posters up
1600	Session: SUN2A: Radical Ions (Boulevard Auditorium) Chair: Dr George Khairallah
1600	Session: SUN2B: Ambient Ionization & Instrumentation (Boulevard room 1) Chair: Prof Peter Derrick
1600	Keynote Lecture: Prof Ivan Chu [Hong Kong]
1600	Keynote Lecture: <i>Multimodal Imaging of Rat Brain, 1-3 Months Post Stroke: A MALDI MS Insight into Long Term Molecular Expression</i> - Dr. Roberto Castangia [UK]
1630	<i>Linking structure to reactivity for guanine radical cations found in oxidized DNA. The gas-phase model systems 9-methyl guanine, deoxyguanosine and the dGdC base pair</i> - Prof Richard O'Hair [Australia]
1630	<i>Quadrupole MS: A New Look</i> - Dr Igor Filippov [New Zealand]
1650	<i>TEMPO-assisted FRIPS (free radical initiated peptide sequencing) MS with higher collision energies on the Q-TOF and orbitrap mass spectrometers</i> - Prof Han Bin Oh [S Korea]
1650	<i>Paper spray ionization and nanospray desorption ionization MS for crude mixture analysis</i> - A/Prof Sangwon Cha [Korea]
1710	<i>Electron capture dissociation of extremely supercharged protein ions formed by electrospray ionisation</i> - Dr William (Alex) Donald [Australia]
1710	<i>Using Direct Analysis in Real-Time MS to discriminate whole seeds based on endogenous metabolites</i> - Dr Arvind Subbaraj [New Zealand]
1730	close SUN2A
1730	close SUN2B
1800	Welcome Reception (Maritime Museum)
1930	Close of Sunday program

MONDAY 20TH JULY

0800	Registration (Boulevard Level Foyer)	
0800	Poster Session 1 - posters up	
0820	PLENARY SESSION: MON1 (Boulevard Auditorium) Chairs: Dr Alun Jones & Dr Darren Creek	
0820	Welcome and announcements	
0830	Prof Ludovic Gillet [Switzerland] sponsored by SCIEX	
0915	<i>Large-scale, Computational and Empirical UHPLC-MS-SPE-NMR Annotation of Plant Metabolomes</i> - Prof Lloyd Sumner [USA] Metabolomics Society	
1000	close MON1	
1000	Morning tea Poster Session 1A - presenters odd numbered	
1100	Session: MON2A: Proteomics 1 (Boulevard Auditorium) Chair: Mark Molloy	Session: MON2B: Ion Mobility (Boulevard room 1) Chair: Prof Evan Bieske
1100	Keynote Lecture: <i>Integrated glycoproteomics pipeline for discovery and validation of differentially glycosylated serum proteins as cancer biomarkers</i> - Prof Michelle Hill [Australia] sponsored by Agilent	Keynote Lecture: <i>High-Resolution Differential Ion Mobility (FAIMS) Separations from Isotopomers to Proteins</i> - Prof Alex Shvartsburgh [USA]
1130	<i>Optimization of Tandem MS Strategies for the Identification, Characterization and Quantification of Microcystin Peptide</i> - Prof Gavin Reid [Australia]	<i>Isomerisation pathways of retinal protonated Schiff base in the gas phase</i> - Mr Neville Coughlan [Australia]
1150	<i>Targeted Proteomics Approach of Plasma Proteins after Decomplexing at the Protein Level</i> - Dr Manfred Raida [Singapore]	<i>Novel operating modes of an ion mobility quadrupole time-of-flight hybrid instrument</i> - Mr Martin Green [UK]
1210	<i>Optimization and Validation of Human Immunoglobulin G Purification Process for Label-Free Proteomics Study: Application to IgG Peptide Biomarkers Investigation for Autoimmune Disease</i> - Dr I-Lin Tsai [Taiwan]	<i>Combined Differential Mobility & Ozone-Induced Dissociation MS (DMS-OzID) for Lipid Structure Elucidation within Complex Biological Matrices</i> - Dr Alan Maccarone [Australia]
1230	Lunch Break Beyond Resolution Lunch Seminar – hosted by Waters (registration required)	
1400	Session: MON3A: Proteomics 2 (Boulevard Auditorium) Chair: Prof Jeffrey Gorman	Session: MON3B: Aerosol, particles and ions (Boulevard room 1) Chair: Prof Adam Trevitt
1400	Keynote Lecture: <i>Comprehensive Top-Down Analysis of Phosphorylated Intact Proteins using MALDI-ISD MS with 5-Amino-1-Naphthol (5,1-ANL) Matrix</i> - Prof Mitsuo Takayama [Japan]	Keynote Lecture: Dr Kevin Wilson [USA] sponsored RACI Physical Chemistry
1430	<i>Insights into the Saccharomyces cerevisiae intracellular methylation network gained via MS</i> - Dr Gene Hart-Smith [Australia]	<i>Absorption imaging of a single trapped atomic ion and potential application to chromosome dynamic</i> - Dr Erik Streed [Australia]
1450	<i>Discovering protein markers for cholangiocarcinoma using FFPE tissue and SWATH-MS</i> - A/Prof Jason Mulvenna [Australia]	<i>Advanced bioparticle collider</i> - Mr Szu-Hsueh Lai [Taiwan]
1510	<i>Examining quantitative accuracy and proteome coverage of SWATH-MS using local or extended spectral ion libraries</i> - A/Prof Mark Molloy [Australia]	<i>Tandem Ion Mobility MS – Using Light and Collisions to Change the Shape of Molecular Ions</i> - Prof Evan Bieske [Australia]
1530	Afternoon tea Poster Session 1B - presenters even numbered	
1630	Session: MON4A: Metabolomics (Boulevard Auditorium) Chairs: Dr Simone Rochfort	Session: MON4B: Ion Chemistry and Spectroscopy (Boulevard room 1) Chair: Prof Richard O'Hair (Presentation of Bowie Medal)
1630	Keynote Lecture: <i>Untargeted metabolomics identifies mechanisms of action and resistance for a novel antitrypanosomal curcumin analogue</i> - Dr Darren Creek [Australia]	Keynote Lecture: A/Prof Adam Trevitt [Australia] Bowie Medal Lecture
1700	<i>Liquid Chromatography-MS and Chemometric analysis of Ricinus communis extracts for cultivar identification</i> - Dr Simon Ovenden [Australia]	<i>Silver acetylide nanoclusters and their role in the C-C bond coupling of allyl halides</i> - Mr Victor Wan [Australia]
1720	<i>Screening of cis-diol metabolites in biological samples by liquid chromatography/tandem MS combined with chemical derivatization</i> - Mr Shangfu Li [Hong Kong]	<i>Coupled Unimolecular Dissociations of Halotoluene Radical Cations</i> - Prof Seung Koo Shin [S Korea]
1740	<i>Endophyte impact on commercial grass cultivar at various growth stages using liquid chromatography and direct infusion MS</i> - Mr Antony Crowther [Australia]	<i>Charge-Solvated or Salt-Bridged: Can Structures of Protonated Amino Acid Homodimers Be Predicted?</i> - Prof Xianglei Kong [China]
1800	Close of Monday program Poster Session 1 - posters down	

TUESDAY 21ST JULY

0800	Registration (Boulevard Level Foyer) <i>Poster Session 2 - posters up</i>	
0820	PLENARY SESSION: TUES1 (Boulevard Auditorium) Chairs: Prof Sally-Ann Poulsen & Gavin Reid	
0820	Welcome and announcements	
0830	Prof Perdita Baran [UK]	
0915	Probing Gas Phase Biomolecular Structure via Excitation Energy Transfer - Prof Ryan Julian [USA]	
1000	Morning tea <i>Poster Session 2A - presenters odd-numbered</i>	
1100	Session: TUES2A: Structural Biology and Native State MS (Boulevard Auditorium) Chair: Prof Jennifer Beck	Session: TUES2B: New Directions in Instrumentation (Boulevard room 1) Chair: Dr Igor Filippov
1100	Keynote Lecture: <i>Probing Structural Variations and Intermolecular Interactions of Intrinsically Disordered Proteins using MS</i> - Prof Hugh Kim [S Korea]	Keynote Lecture: Prof Wen-Ping Peng [Taiwan]
1130	<i>Native state MS to identify novel chemical starting points for drug discovery</i> - Prof Sally-Ann Poulsen [Australia]	<i>Advances in Real Time Analytical Chemistry</i> - Prof Murray McEwan [New Zealand]
1150	<i>Structural Characterisation of Biomolecular Assemblies by Chemical Cross-linking and Ion Mobility-MS</i> - Dr Tara Pukala [Australia]	<i>What affects the performance of linear ion trap mass analyzers: the geometrical structure or the electric field distribution?</i> - Prof Chuan-Fan Ding [China]
1210	<i>Achieving Accurate Equilibrium Dissociation Constants by Electrospray Ionization MS using Design of Experiments and Response Surface Methodology</i> - Ms Liliana Pedro [Australia]	<i>Dual Nano-Electrospray and Mixing Process in the Taylor Cone</i> - Ms Anna Radionova [New Zealand]
1230	Lunch Break and free afternoon <i>Shimadzu Lunch (registration required)</i>	
1300	ANZSMS business meeting (Boulevard Auditorium)	
1330	Shimadzu Workshop (registration required) (Boulevard room 2)	
1400	ANZSMS business meeting close	
1430	Shimadzu Workshop close	
1500	Python Programming Workshop (QUT Science and Engineering Centre, room P638)	
1630	AOMSC business meeting (QUT Science and Engineering Centre, room P638)	
1730	AOMSC business meeting close	
1830	AOMSC dignitaries dinner (invitation only)	
2130	Close of Tuesday Program	

WEDNESDAY 22ND JULY

0800	Registration (Boulevard Level Foyer)	
0820	PLENARY SESSION: WED1 (Boulevard Auditorium) Chairs: A/Prof Todd Mitchell & Dr Angus Grey	
0820	Welcome and announcements	
0830	Prof Kevin Schey [USA]	
0915	Prof Andrej Shevchenko [Germany]	
1000	Morning tea <i>Poster Session 2B - presenters even-numbered</i>	
1100	Session: WED2A: Lipids and metabolites 1 (Boulevard Auditorium) Chair: A/Prof Michelle Hill	Session: WED2B: Biomolecular structure and interactions (Boulevard room 1) Chair: Dr Simon Brown
1100	Keynote Lecture: <i>Novel applications in lipidomics and natural variation of signaling lipids</i> - Dr Federico Tesia Torta [Singapore] Agilent sponsored	Keynote Lecture: Anand, Ganesh Prof [Singapore]
1130	<i>Top-Down Lipidomic Analysis by Flow Field-Flow Fractionation and MS</i> - Prof Myeong Hee Moon [S Korea]	<i>Design and Synthesis of a Novel Chemical Crosslinker for Protein Structure Determination</i> - Miss Kayla Downey [Australia]
1150	<i>Exploring the Molecular Diversity of the Human Red Blood Cell Lipidome using Collision- and Ozone-induced Dissociation MS (CID/OzID-MS)</i> - Dr Sarah Abbott [Australia]	<i>ESI-MS/TWIMS investigations of the equilibrium between a bimolecular quadruplex DNA and duplex DNA/RNA hybrid</i> - Ms Monica Birrento [Australia]
1210	<i>Non-targeted detection of drug metabolites using high-resolution twin-ion metabolite extraction MS: from small molecules to protein conjugates</i> - Mr Michael Leeming [Australia]	<i>Structural varieties formed by short Guanine- and Cytosine-rich DNA strands observed with electrospray ionization MS</i> - Prof Xinhua Guo [China]
1230	Lunch Break <i>Informatics for MS Lunch Seminar – hosted by Waters (registration required)</i>	
1400	Session: WED3A: Imaging and Surface Analysis (Boulevard Auditorium) Chair: Prof Kevin Schey	Session: WED3B: Forensics, Clinical and Environmental (Boulevard room 1) Chair: Dr Geoff Nette
1400	<i>Proton Sponge Analogues - 1,8-Bis-(1pyrrolidinylnaphthalene and 1,8Bis(tetramethylguanidino)naphthalene Enhanced Negative Mode Matrix Assisted Laser Desorption Ionisation Ionless Matrices for Mass Spectral Imaging</i> - Dr Berin Boughton [Australia]	<i>Advances in Crunching, Presenting and Interpreting Mass Spectrometric Evidence</i> - A/Prof Stewart Walker [Australia]
1420	<i>In vivo visualization and quantification of myocardial metabolic fluxes of glucose by MS</i> - A/Prof Yuki Sugiura [Japan]	<i>FT-ICR MS Analysis of Oxygenated Compounds in Biomass Oil</i> - A/Prof Yehua Han [China]
1440	<i>MALDI-Imaging of the venom gland of funnel web spiders reveals spatial compartmentalisation gives rise to biochemical modulation venom secretion</i> - Dr Brett Hamilton [Australia]	<i>A high sensitivity multi-analyte drug panel for the analysis of urine using UHPLC and Ultrafast-LCMSMS</i> - Dr Paul Wynne [Australia]
1500	<i>Mapping lipid changes in human Alzheimer's disease hippocampal subregions with MALDI imaging</i> - Dr Angus Grey [New Zealand]	<i>Analysis of Endocannabinoids in Plasma Combining Magnetic Dispersive Microextraction (MDME) with UPLC-MS</i> - Prof Mingquan Guo [China]
1520	<i>Silver cluster internal calibration for molecular fingerprint imaging on desorption/ionisation on silicon (DIOS) surfaces</i> - Dr Ove Gustafsson [Australia]	<i>Investigation of the mechanism of binding of anticancer drugs to DNA using ESIQToF-MS</i> - Dr David Harman [Australia]
1540	Afternoon tea	
1600	Session: WED4A: Proteomics and Glycomics (Boulevard Auditorium) Chair: Dr Pawel Sadowski	Session: WED4B: Lipids and Metabolites 2 (Boulevard room 1) Chair: Dr Tara Pukala
1600	<i>Going against the grain – Using targeted proteomics to detect wheat contamination in foods</i> - Dr Michelle Colgrave [Australia]	<i>Structure elucidation in triacylglycerols using Ozon-“omics” approaches</i> - Prof Stephen Blanksby [Australia] Morrison Lecture
1620	<i>Spatially-Resolved Exploration of the Mouse Brain Glycome by Tissue GlycoCapture(TGC) and Nano-LC/MS</i> - Prof Hyun Joo An [Korea]	<i>Using a postcolumn infused-internal standard method for accurate quantification of phosphatidylcholine in quantitative lipidomics</i> - Dr Hsiao-Wei Liao [Taiwan]
1640	<i>Targeting SWATH: Studying Protein Kinase Changes with MS</i> - Dr Peter Hains [Australia]	<i>Liquid chromatography-high resolution MS based metabolomics investigation of the biochemical diversity of secondary metabolites among perennial ryegrass populations</i> - Dr Karl Fraser [New Zealand]
1700	<i>Investigation of Protein Behavior on Microsecond Time-Scales Through the Use of Multi-Channel Electrospray Ionization-MS</i> - Dr Nicholas Demarais [New Zealand]	<i>Lipid Profile Changes of the Left Ventricle in Pathological Cardiac Hypertrophy</i> - Dr Simon HJ Brown [Australia]
1720	close WED4A	close WED4B
1730	Session: WED5 (Boulevard Auditorium) Chair: A/Prof Noel Davies	
1730	ANZSMS Medal Lecture: Derrick, Prof Peter [New Zealand] ANZSMS Medal	
1800	Close WED5	
1900	Pre-dinner drinks	
1930	Gala dinner: Speeches and prizes	
2300	Close of conference	