**2019 ANZSMS CONFERENCE PROGRAM**

**Wednesday 30 January 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>13:00 - 18:00</td>
<td>Registration</td>
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| 13:00 - 16:00 | Early Career Researchers Forum  
* Sponsored by School of Medical Sciences |
| 17:00 - 17:15 | Conference Opening                                                      |
| 17:15 - 18:00 | Keynote Presentation:  
* Professor Veronica Bierbaum  
University Of Colorado |
| 18:00 - 20:00 | Welcome Reception  
* Auckland University of Technology  
Sponsored by Shimadzu |

**Thursday 31 January 2019**

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<tr>
<td>8:00 – 9:00</td>
<td>Registration - Arrival tea &amp; coffee</td>
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| 9:00 – 9:45 | Keynote Presentation:  
* Professor Dame Carol Robinson  
University of Oxford |

**Native MS/Structural Bio (1)**

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| 9:45 – 10:05 | Dr Timothy Allison  
University of Canterbury  
* Revealing the direct action of a chemical chaperone using native mass spectrometry |
| 10:05 – 10:30 | Prof Ron Quinn  
Griffith University  
* Fragment-Based Drug Discovery using native MS |
| 10:30 – 11:00 | Morning Tea & Networking in the Exhibition |

**Clinical and Diagnostic (1)**

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| 11:00 – 11:45 | 2019 Morrison Medal Lecture:  
* Professor Christian Hartinger  
University Of Auckland  
* Mass Spectrometric Methods in Bioanalytical Studies Supporting the Development of Anticancer Metallodrugs |

**Proteomics**

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<tr>
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| 14.05-14.20 | Catherine Ann Maidment  
Massey University/ NZ Leather and Shoe Research Association  
* Loose or tight: What is the difference? |
| 14.20-14.35 | Evelyn Maes  
Agresearch Ltd  
* Proteomics of a hairy situation |
| 14.35-14.50 | Professor Michelle Colgrave  
CSIRO  
* Using mass spectrometry to accelerate plant breeding |
| 14:50 – 15:15 | Chris Bowen  
Shimadzu |
| 15:15 – 15:45 | Afternoon Tea & Networking in the Exhibition |

**Ion Chemistry and Spectroscopy (1)**

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| 15:45 - 16.00 | Stephen Blanksby  
Queensland University Of Technology  
* Gas phase reactions of ozone with halide ions |
| 16:00 – 16:15 | Berwyck Poad  
Queensland University Of Technology  
* Accelerating ion-molecule reactions using supplemental RF-activation in a linear ion trap |
| 16:15 – 16:25 | Howard Ma  
The University Of Melbourne |

*The Conference Program is subject to change, this will be at the discretion of the Organising Committee  
Updated 12 December 2018  
(S) Student Presenter
Caught at Last! Isolation, Structural Characterization and Gas-phase Studies of the [Ag10(H)8L6]2+ Nanocluster Dication

16:25 – 16:35
Dr Christopher Hansen
University Of New South Wales
Ion imaging mass spectrometry with VUV universal ionisation

16:35 – 16:45
Benjamin McKinnon
University Of Wollongong
UV Action Spectroscopy of Protonated Pyridine Derivatives (S)

16:45 – 17:00
Samuel Marlton
University Of Wollongong
Analysis of Protomers using Photodissociation Spectroscopy and Field Asymmetric Ion Mobility Spectrometry (S)

17:00 – 17:30
Lightning Talks (Student Poster Session)

17:30 – 19:30
Poster Session Mixer
Sponsored by Thermo Fisher Scientific

Friday 1 February 2019

8:00 – 9:00 Registration - Arrival tea & coffee

9:00 – 9:45 Keynote Presentation:
Professor Jon Amster
University of Georgia

Native MS/Structural Bio (2)

09.45-09.55
Jiawei Li
University Of Adelaide
Native Mass Spectrometry revealing the Structural Details of Genetic Switches (S)

09.55-10.05
Giang Thi Huong Nguyen
University Of New South Wales
Nanoscale ion emitters in native mass spectrometry for measuring ligand-protein binding affinities (S)

10.05-10.15
Chia-De Ruth Wang
The University of Adelaide
Characterisation of Snake Venom Proteins: From Sequence to Structure (S)

10.15-10.30
Miaomiao Liu
Griffith University
Anti-TB Natural Products Identification Using Native Mass Spectrometry

10:30 – 11:00 Morning Tea & Networking in the Exhibition

11:00 – 11:45 2017 Guilhaus Research Awardee:
A/Prof Dr Adam Trevitt
University of Wollongong

Advances in Instrumentation & Methods (1)

11.45-12.00
Dr Christian Krill
Agriculture Victoria Research
Volatile profiling of medicinal cannabis

12.00-12.15
Chris Pook
Auckland University Of Technology School of Sciences
Volatile profiling of biological samples using Thermal Desorption Gas Chromatography with Mass Spectrometry (TD-GC-MS)

12.15-12.25
Sajid Latif
Charles Sturt University
Use of Non-Targeted Metabolic Profiling Coupled with Bioassays for the Identification of Phytophobic Secondary Metabolites in Annual Pasture Legumes (S)

12.25-13.00
Dr Stephen Haines
AgResearch Ltd
Wringing the most accurate label-free quantitative results of out PEAKS software

12.40-13.00
Kate Comstock
Thermofisher Scientific
Orbitrap ID-X Tribrid Mass Spectrometer A Novel Approach for Small Molecule Identification and Characterization

13:00 ANZSMS AGM

Saturday 2 February 2019

8:00 – 9:00 Registration - Arrival tea & coffee

9:00 – 9:45 Keynote Presentation:
Professor. Dr. Ron Heeren
Maastricht University

Advance in Instrumentation & Methods (1)

09.45-10.10
Murray McEwan
University Of Canterbury/syft Technologies Ltd

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Updated 12 December 2018 (S) Student Presenter
Page 2
### 10.10-10.30
**Advances in Direct Mass Spectrometry: SIFT-MS**

**Katherine Hyland**
Sciex
*Screening and Quantitation in Food Matrices Using Combined SWATH + IDA Acquisition*

### 10:30 – 11:00
**Morning Tea & Networking in the Exhibition**

### Environmental and Forensic (2)

**11.00-11.15**
**Joel Rindelaub**
University of Auckland
*Methamphetamine Oxidation and Reactivity: Insight into Contaminated Homes and Remediation*

**11.15-11.25**
**Maryani Paramita Astuti**
University Of Auckland
*Development of analytical methods for five classes of emerging contaminants in wastewater on LC-MS/MS and GC/MS (S)*

**11.25-11.35**
**Huixin Wang**
School of Chemistry, UNSW
*Advanced Mass Spectrometry Methods for Unravelling the Mechanisms of Organophosphate Toxicity (S)*

**11.35-11.50**
**Tahereh Jasemi Zad**
University Of Auckland
*Determination of Betrixaban and Hexazinone by Liquid Chromatography/Tandem Mass Spectrometry Analysis in Aqueous Solutions (S)*

**11.50-12.05**
**Associate Professor Stewart Walker**
Flinders University
*Enhancing Food Safety and Authentication through Training and Implementation of Advanced Mass Spectrometry Techniques in Asia and the Pacific*

**12.05-12.20**
**Renee Webster**
Defence Science And Technology Group
*Chemical attribution of ricin by profiling of fatty acids using gas chromatography mass spectrometry*

**12.20-12.30**
**Mr Ezaz Ahmed**
UNSW Australia
*Rapid separation of isomeric perfluoro alkyl substances by high-resolution differential ion mobility mass spectrometry (S)*

### 12.30 - 13:30
**Lunch & Networking in the Exhibition**

**Workshop (2) hosted by Sciex**

### 13:30 - 14.15
**Keynote Presentation:**
**Dr. Yu Xia**
Tsinghua University

### Lipids/Metabolites (1)

**14.15-14.25**
**Venkateswra Reddy Narreddula**
Queensland University Of Technology
*Optimization of fatty acid derivatization reagents for photo-dissociation mass spectrometry (S)*

**14.25-14.40**
**David Marshall**
Queensland University Of Technology
*Profiling lipid isomers by data-independent ozone-induced dissociation*

**14.40-14.50**
**Reuben Young**
QUT
*Discovering the missing kink: Lipid unsaturation as a sensitive marker for metabolic changes in cancer (S)*

**14.50-15.00**
**Gabrielle Phillips**
University Of Wollongong
*Differentiation of sphingolipid species by carbon chain length reveals region-specific disturbances in Huntington’s disease (S)*

### 15:00 – 15:45
**Afternoon Tea & Networking in the Exhibition**

### Lipids/Metabolites (2)

**15.45-16.00**
**Mr Yepy Hardi Rustam**
The University of Melbourne
*Defining the Lipidomic ‘Hallmarks’ of Colorectal Cancer*

**16.00-16.15**
**Simone Rochfort**
Agriculture Victoria Research
*Volatile terpenes and cannabinoids over floral development in diverse strains of medicinal cannabis*

**16.15-16.30**
**Berin Boughton**
Metabolomics Australia, The University Of Melbourne
*Detection of small molecule concentration gradients in ocular tissues and humours via MALDI Imaging Mass Spectrometry*
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<tr>
<td>16.30-16.40</td>
<td>Conference Program</td>
<td>Sandesh Deshpande University Of Auckland</td>
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<td>Novel Substrate Selectivity Mechanisms in Methanogen Non-ribosomal Peptide Synthetases (S)</td>
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<tr>
<td>18.30 - 23.00</td>
<td>Conference Dinner</td>
<td>The Maritime Room, Princes Wharf Viaduct Harbour</td>
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**Sunday 3 February 2019**

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<td>9:00 – 9:45</td>
<td>Keynote Presentation</td>
<td>Professor Zheng Ouyang Tsinghua University</td>
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<tr>
<td>9.45-10.00</td>
<td>Clinical and Diagnostic (2)</td>
<td>Moritz Lasse University Of Otago, Christchurch</td>
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<td>Elevated plasma fibrinogen, haemoglobin, alpha-2-Hslycoprotein and clusterin levels are associated with incident cardiovascular events in asymptomatic individuals</td>
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<td>10.00-10.10</td>
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<td>Priyanka Reddy Agriculture Victoria</td>
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<td>Functional metabolomics analysis of the natural occurring toxin lolitrem B in a mouse model (S)</td>
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<tr>
<td>10.10-10.25</td>
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<td>Elizabeth McKenzie Liggins Institute, University of Auckland</td>
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<td>Cooking Your Data: challenging the use of orthodox SPME extraction temperatures in biological analysis</td>
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<tr>
<td>10:30 – 11:00</td>
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<td>Morning Tea and Networking in the Exhibition</td>
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<tr>
<td>11:00 – 11:45</td>
<td>2019 Bowie Medal Lecture: Dr Alex Donald</td>
<td>Dr Alex Donald Metal-Ion Free Chiral Analysis of Amino Acid Enantiomers Using High-Resolution Differential Ion Mobility Mass Spectrometry</td>
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<td>11.45-12.15</td>
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<td>Paul Mayer University of Ottawa</td>
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<td>Reaction Dynamics of Substituted PAH Ions</td>
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Updated 12 December 2018   (S) Student Presenter