

PROGRAM – 1st Metabolomics Symposium

FRIDAY, 8th FEBRUARY 2019

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Metabolomics Symposium - Welcome

8:55am - 9:00am Chair: Berin Boughton Horizons Room

Metabolomics Symposium - Opening Plenary

9:00am - 9:30am Chair: Berin Boughton Horizons Room

9:00AM **Ron M.A. Heeren** *abs# 23*

Spatial proteomics with translational imaging mass spectrometry

Metabolomics Symposium - Session One: Imaging and small molecules

9:30am - 10:30am Chair: Berin Boughton Horizons Room

9:30AM **Darren Creek** *abs# 24*

Combining chemical biology tools with metabolomics to identify small molecule targets of peroxide antimalarials

9:50AM **Simone Rochfort** *abs# 25*

The cannabis metabolome

10:10AM **Alastair B Ross** *abs# 26*

Rapid Evaporative Ionisation Mass Spectrometry: a new tool for rapid screening of detailed composition data in food

Metabolomics Symposium - Morning Tea

10:30am - 11:00am Exhibition Hall

Metabolomics Symposium - Session Two: Lipidomics

11:00am - 12:50pm Chair: Michelle Hill Horizons Room

11:00AM **Robert Trengove** *abs# 27*

Utilising metabolic profiling and inflammation markers as diagnostic tools

11:30AM **Gavin Reid** *abs# 28*

Uncovering the role of brain-derived lipid exosomes in Alzheimer's disease

11:50AM **Ahmed Mohamed** *abs# 29*

Lipidr: targeted lipidomics analysis workflow in R

12:10PM **Shuai Nie** *abs# 30*

The developmental lipidome and proteome of *Haemonchus contortus* reflect unique adaptations in the transition to parasitism

12:30PM **Lauren A Thurgood** *abs# 31*

Hooked on fat: nutrient uptake in chronic lymphocytic leukaemia

12:50PM **Rong Xu** *abs# 32*

Surfaceome of exosomes secreted from the colorectal cancer cell line SW480

Metabolomics Symposium - Lunch & Poster Session

1:10pm - 2:30pm Exhibition Hall

Metabolomics Symposium & Proteomics 2019 posters are displayed together. Please refer to the poster listing on page 21.

Metabolomics Symposium - Session Three: Disease metabolomics

5:00pm - 6:10pm Chair: Gavin Reid Horizons Room

5:00PM **Kristin K Brown** *abs# 33*

Metabolic reprogramming in cancer

5:30 PM **Jeffrey Molendijk** *abs# 34*

Multi-omics analysis of esophageal adenocarcinoma reveals impaired lipid antioxidant mechanisms during disease progression

5:50PM **Anubhav Srivastava** *abs# 35*

From phenotypic screens to mode of action: A metabolomics approach to guide the development of novel anti-trypanosomal Drugs

Metabolomics Symposium - Closing Plenary

6:10pm - 6:40pm Chair: Gavin Reid Horizons Room

6:10PM **Jessica A Lasky-Su** *abs# 36*

A meta-analysis of metabolites associated with BMI in > 30,000 individuals from the COMETs consortium

Christine Miller Improved lipid profiling workflow using novel iterative MS/MS mode and <i>in silico</i> annotation	<i>abs# 92</i>
Christine Miller Developing an automated plasma sample preparation method for LC/MS analysis of metabolites	<i>abs# 93</i>
Aaron Elkins Chemotyping of medicinal cannabis phytocannabinoids	<i>abs# 94</i>
Lok Man Multi-omics analysis of a nutrient transport protein required for full virulence in <i>Campylobacter jejuni</i>	<i>abs# 95</i>
Clara Castaños Sánchez de la Barquera Early detection of honey bee malnutrition and colony collapse	<i>abs# 96</i>
Amanda Souza Improved metabolome coverage and increased confidence in unknown identification through novel automated acquisition strategy combining sequential injections and MS ⁿ	<i>abs# 97</i>
Amanda Souza Flavonoid annotation using a product ion-dependent MS ⁿ data acquisition method on a Tribrid Orbitrap mass spectrometer	<i>abs# 98</i>
Karyn L Wilde Bespoke deuterated lipid molecules for structure function applications from the National Deuteration Facility	<i>abs# 99</i>
Robert Plumb A high throughput single platform for <i>quantitative multiOmics</i>	<i>abs# 100</i>
Robert Plumb High throughput lipidomics using ion mobility enabled rapid LC-MS profiling shows promise for the analysis of human plasma samples obtained from breast cancer patients	<i>abs# 101</i>
Katherine Hyland An "OMICS" approach to food profiling, authenticity, and classification	<i>abs# 138</i>