



P&J Live, Aberdeen - 3 and 4 November 2022

3 November 2022

10:00-10:30 Registration (Tea/Coffee)

10:30-10:35 **Will Allwood; SMN Chair:** Welcome from the SMN Board

Scientific Session One (Tools and Technologies) Chair: Jules Griffin



10:35-11:10 Invited Keynote

Warwick Dunn; University of Liverpool: *Metabolomics and precision medicine - samples, annotation tools, quality and case studies*

11:10-11:35

Tessa Moses; University of Glasgow: *A rapid ion mobility mass spectrometry method for untargeted metabolomics of complex biological samples*

11:35-12:00

Emily Armitage; Shimadzu Corporation: *Tools and Innovations to enhance Metabolomics Workflows*

12:00-13:00 Lunch/Poster Session

Scientific Session Two (Mechanistic Biology I) Chair: Ruth Andrew

13:00-13:25

Judith Ngere; Oxford University (Thermo): Application of ion-exchange chromatography coupled to high resolution mass spectrometry (IC-MS) for the measurement of the central carbon metabolism

13:25-13:50

Clement Regnault; University of Glasgow: Pervasive dissimilation of macrophage immunometabolites by *Leishmania mexicana*

13:50-14:15

Clarissa Melo Czekster; University of St Andrews: Mass spectrometry to discover and engineer cyclic dipeptide natural product synthesis

14:15-14:40

Elizabeth Nwagwu; University of Strathclyde: Using a NMR-and MS-based metabolomics approach to assess and optimise the antibiofilm potential of a fungal endophyte via OSMAC

Break 14:40-15:05

Scientific Session Three (Mechanistic Biology II) Chair: Will Allwood

15:05-15:20

Nicholas Rattray; University of Strathclyde: Scottish Metabolomics Network Survey of the Landscape - Equipment, Expertise and People

15:20-15:45

Jeffrey Huang; University of Dundee: Is it Aortic? A biomarker journey for aortopathy

15:45-16:10

Qi Zhong; University of Aberdeen Rowett Institute: Lipid pathways in late onset Alzheimer's disease

16:10-16:35

Matthew Lewis; Bruker Daltonics: Meeting the quality demand of modern metabolomics

16:35-16:40

Will Allwood; SMN Chair: EDI, is it important to the SMN

18:30-19:30 Civic Reception/Posters (P&J Live)

19:30 Dinner (P&J Live)

4 November 2022

Scientific Session Four (Cancer) Chair: Phil Whitfield

09:30-09:55

Saverio Tardito; Beatson Institute: *Identification of N5-methylglutamine as an alternative product of glutamine synthetase in liver metabolism and cancer*

09:55-10:20

Domenica Berardi; University of Strathclyde: *Determining the metabolic fingerprint of senescent and breast cancer sub-phenotypes*

10:20-10:45

Nathalie Legrave; Crick Institute: *Cancer metabolism/metabolomics, concentrating on labelling and profiling studies*

Break 10:45-11:10

Scientific Session Five (Cardiovascular Disease) Chair: Natalie Homer

11:10-11:35

Sphamandla Ntshangase; University of Edinburgh: *Mass Spectrometry Imaging elucidates distinct spatial lipidomic profiles of atherosclerotic plaques.*

11:35-12:00

Gina Eagle; SCIEX UK: *The ZenoTOF for in-depth metabolomics & lipid analysis*

12:00-13:00 Lunch/Poster Session

Scientific Session Six (Food, Agriculture and the Environment I) Chair: Cecilia Castro

13:00-13:25

Will Allwood; James Hutton Institute: *Assessing the impact of nitrogen supplementation in oats across multiple growth locations and years with targeted phenotyping and high-resolution metabolite profiling approaches*

13:25-13:40

Richard Broughton; University of Stirling: *The rise and fall of the zooplankton in the Arctic - Unravelling the contribution of lipids to copepod diapause within the Arctic*

13:40-14:05

Alan Griffiths; LECO UK: *GC-MS Toolbox Essentials for Metabolomics Workflows*

14:05-14:30 Break

Scientific Session Seven (Food, Agriculture and the Environment II) Chair: Wendy Russell

14:30-14:55

Sarah Gregory; University of Edinburgh: *Using LC-MS/MS to profile steroids in saliva in a dementia population*

14:55-15:20

Hannah Florance; Agilent: *Ensuring robust transfer from targeted discovery metabolomics to a reliable untargeted HILIC LCMS workflow*

15:20-16:00 Invited Plenary



Kati Hanhineva; University of Finland: *Metabolomics insights at the intersection of food and health with the Nordic diet focus*

16:00 Prizes and Announcement of SMN 23 - Session Close