



Scottish Metabolomics Network Annual Meeting 2019

Technology and Innovation Centre, University of Strathclyde, Glasgow, 13th - 15th November

PROGRAMME

Day one | Wednesday 13th November 2019

Workshop on modelling of metabolomics data | Gavin Blackburn, Nik Rattray, Tim Ebbels

SMN Workshop Schedule

10:00 - 10:45	Registration with Tea/Coffee
10:45 - 11:00	Gavin Blackburn: Introductory Lecture on Experimental Design
11:00 - 12:00	Nik Rattray with room help from Gav Blackburn and PhDs:
	Workshop #1 – MetaboAnalyst overview, data formatting, upload and
	preprocessing
12:00 - 13:00	Lunch
13:00 - 14:00	Dr Tim Ebbels with room help from Gav, Nik and PhDs:
	Workshop #2 – Univariate Analysis
14:00 - 14:30	Nik Rattray with room help from Gav Blackburn and PhDs:
	Workshop #1 Part 1 – Multivariate analysis covering PCA, PLS-DA and
	oPLS-DA
14:30 - 15:00	Tea/Coffee Break
15:00 - 16:00	Dr Tim Ebbels with room help from Gav, Nik and PhDs:
	Workshop #3 Part 2 – Multivariate analysis covering PCA, PLS-DA and
	oPLS-DA

16:00 - 16:30	Open house for questions to panel
17:00 - 18:00	Opening Key Note Lecture delivered by Dr Tim Ebbels (Imperial) Computational Metabolomics: the key to the future?
18:00 onwards	Drinks Reception sponsored by Shimadzu then a meal out for those interested.

Day two | Thursday 14th November 2019

10:00 - 10:30	Registration with Tea/Coffee
10:30 - 10:45	Karl Burgess: Welcome from the SMN board
Scientific Session One - Metabolomics and Biomarker Discovery (Chair - Dave Watson)	
10:45 - 11:10	Ruth Andrew (University of Edinburgh): Mass Spectrometry Imaging of Small Molecules – an Update from Edinburgh.
11:10 - 11:35	Mike Barrett (University of Glasgow): Untargeted Metabolomics for Patient Stratification: Delivering Precision Medicine.
11:35 - 12:00	Sponsor 1 Bruker Ltd – Lucy Woods (Bruker Ltd): High Speed Untargeted 4D-Lipidomics LC-MS/MS Workflows with Parallel Accumulation Serial Fragmentation (PASEF).
12:00 - 12:25	Sponsor 2 Waters Ltd – Ian Wilson (Imperial College): Smaller, Better, Faster: Rapid Methods for the Analysis of Biofluids <i>via</i> Microbore UPLC/IM/MS.
12:25 - 13:25	Lunch, Networking, Sponsor Exhibitions

Scientific Session Two – Cell Based Metabolomics (Chair – Oliver Maddocks)

13:25 - 13:50Giovanny Rodriguez Blanco (Beatson Laboratories): Comprehensive
Evaluation of a One-Step Sample Preparation for Global LC-MS
Lipidomics of Cancer Cell Cultures.

13:50 - 14:15	Andy Finch (University of Edinburgh): Energetic Stress in MYC- Induced Apoptosis.
14:15 - 14:40	Sponsor 3 Anatune Ltd – Nathan Hawkins (Anatune Ltd): Automated Thermal Desorption (TD)-SIFT-MS: A New Paradigm for Breath Analysis.
14:40 - 15:05	Sponsor 4 Sciex Ltd – Gina Eagle (Sciex Ltd): SWATH Acquisition for Untargeted Metabolomics and Comprehensive Metabolite Quantitation.
15:05 - 15:30	Refreshments, Networking, Sponsor Exhibitions
Scientific Session Three - Lipidomics and Steroids (Chair – Ruth Andrew)	
15:30 - 15:55	Phil Whitfield – (UHI Inverness): A Walk Through the World of Weird and Wonderful Lipids.
15:55 - 16:20	Terry Smith (University of Saint Andrews): The Choline Cycle: its Quantification and Inhibition.
Keynote Lecture	
16:20 - 16:55	Julian Griffin (Imperial College): Fatty Liver Disease: from MALDI Imaging to Population Studies Using Lipidomics.
16:55 - 18:00	Posters Drinks Reception Sponsored by LECO
19:00 - 20:30 20:30 - 12:00	Conference Meal at Drygate Brewery Ceilidh (The Jiggers Ceilidh Band)

Day three | Friday 15th November 2019

Scientific Session Four - Metabolomics Technologies I (Chair – Natalie Homer)

09:15 - 09:40	Gavin Blackburn (University of Glasgow): Quality Control in
	Metabolomics, What Do We Do and How Can We Improve it?
09:40 - 10:05	Emily Dickie (University of Glasgow): Lipidomic Analysis of
	Trypanosoma congolense.

10:05 - 10:30	Sponsor 5 Leco Ltd – Rachel Hand (De Montfort University): Working
	Towards Comprehensive Steroid Detection in Urine via Targeted MIPs
	Clean-up and Fully Automated GCxGC-MS Analysis.
10:30 - 10:55	Sponsor 6 Shimadzu – Emily Armitage (Shimadzu Ltd): A High Speed
	DIA-MS/MS Untargeted Metabolic Profiling Approach to Study
	Ethanol Toxicity in Mouse Cerebral Tissue.

10:55 - 11:20 Refreshments, Networking, Sponsor Exhibitions

Scientific Session Five - Metabolomics, Food Nutrition, Natural Products and Health (Chair – Wendy Russell)

11:20 - 11:45	Elena Conti (Rowett Institute): Discovery of novel antimicrobial metabolites from the human gut microbiota.
11:45 - 12:10	Will Allwood (James Hutton Institute): Investigating the Effects of Future Climate Scenarios in Soft Fruit: Application of HPLC- PDA-MS Metabolite Profiling in Blackcurrant Cultivated Under Increased Temperature and Altered Light Regimes.
12:10 - 12:35	RuAngelie Edrada Ebel (University of Strathclyde): Secondary Metabolomics: Targeting the Bioactives from a Haystack.
12:35 - 13:00	Sponsor 7 Thermo Fisher Scientific – Lena Becciolini (Thermo Fisher Scientific): AcquireXA Deep Dive into the Sea of Metabolic Features

13:00 - 14:00 Lunch, Networking, Sponsor Exhibitions

Scientific Session Six - Metabolomics Technologies II (Chair - Gavin Blackburn)

14:00 - 14:25	Hannah Lawther (University of St Andrews): Marine Organisms, Viruses and Pollen: Wild (Type) Approaches to Addressing AMR.
14:25 - 14:50	Karl Burgess (University of Edinburgh): Metabolomics in Industrial Biotechnology.
14:50 - 15:15	Elena Kuzmanova (University of Dundee): Improving Imprecision in Stable Isotope Dilution LC-MS/MS Analysis.

15:15 - 15:40	Sponsor 8 Agilent Ltd – Hannah Florance (Agilent Ltd): Addressing
	Analytical Challenges in Lipidomics Using Retention Time, Accurate
	Mass, Fragmentation and CCS.
15:40 - 16:00	Refreshments, Networking, Sponsor Exhibitions

Plenary Lecture (Chair - Karl Burgess)

- 16.00 16:50 Roy Goodacre (University of Liverpool): Metabolomics by Numbers: Lessons from Large-Scale Phenotyping.
- 16:50 17:10 Prizes and Announcement of SMN 2020

Wi-fi Access

There will be free Wi-Fi (NETWORK: TIC Conferences PASSWORD: GlasgowGreen).



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