 

**Scottish Metabolomics Network Annual Meeting 2018**

***Conference Program***

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| ***Day one*** |  |
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| 10:20-10:50 | Registration and refreshments |
| 10:50-11:05 | Karl Burgess – Welcome and update from the SMN |
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| ***Scientific session one - Cancer Metabolomics (Chair - Jeffrey Huang, University of Dundee)*** | |
| 11:10-11:35 | David Sumpton (Beatson Institute, Glasgow): Reformulating cell culture medium to achieve more physiologically relevant in vitro results |
| 11:35-12:00 | Alice Newman (ECR - Oliver Maddocks; University of Glasgow): Metabolic outcomes of IDO1 driven tryptophan metabolism in pancreatic cancer cells |
| 12:00-12:25 | Kenneth MacLeod (University of Dundee): Humanised models of anticancer drug metabolism |
| 12:25-12:50 | Elena Sokol (Thermo-Fisher Scientific): Improved metabolome coverage and increased confidence in unknown identification through novel automated acquisition strategy combining sequential injections and MSn |
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| 12:50-13:50 | Lunch, networking, sponsor exhibits |
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| ***Scientific session two - Metabolomics and Biomarker discovery (Chair - Natalie Homer, University of Edinburgh)*** | |
| 13:50-14:15 | Jeffrey Huang (University of Dundee): Circulating metabolites of endogenous protein crosslinkings as biomarkers for diseases- from analytical validity to clinical utility |
| 14:15-14:40 | Martin Hornshaw (Metabolon): Metabolomics Uncovers a Greater Understanding of Population and Individual Health |
| 14:40-15:05 | Nina Denver (ECR - Ruth Andrew and Natalie Homer; University of Edinburgh and Glasgow): Understanding sexual dimorphism in pulmonary arterial hypertension: Development of an LC-MS/MS approach for the analysis of estrogens in human plasma |
| 15:05-15:30 | Daniel White (SCIEX): Lipidomic profiling reveals modulation of phospholipid metabolism and increased cardiolipin synthesis in alternatively activated macrophages |
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| 15:30-16:00 | Refreshments, networking, sponsor exhibits |
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| ***Scientific session three - Lipidomics and steroids (Chair - Phil Whitfield, UHI Inverness)*** | |
| 16:00-16:25 | Nicole Brace (ECR - Phil Whitfield; UHI Inverness): Integrated Lipidomic and Proteomic Studies of Eicosanoid Metabolism |
| 16:25-16:50 | Louise Major (University of St. Andrews): Chemical validation of Trypanosma brucei uridine diphosphate-N-acetylglucosamine pyrophosphorylase (UAP) as a drug target |
| 16:50-17:15 | James MacRae (Francis Crick Institute, London): Lipid Metabolism in apicomplexan parasites: Routes for drug therapy |
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| 17:15-18:30 | Poster session |
| 19:00-20:00 | Civic reception and free access to RRS Discovery and museum (Discovery Point) |
| 20:00-22:00 | Conference meal (Discovery Point) |

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| ***Day two*** |  |
| 09:00-09:30 | Registration and refreshments |
| ***Scientific session four - Metabolomics technologies I (Chair - Karl Burgess, University of Glasgow)*** | |
| 09:30-09:55 | Abdulmalik Alqarni (ECR - Dave Watson; University of Strathclyde): Effect of Melittin on Metabolomic Profile and Cytokine Production in PMA-Differentiated THP-1 Cells |
| 09:55-10:20 | Anna Mastela (ECR - Hannah Florance; University of Edinburgh): Design of Experiments (DoE) approach to develop an extraction method combined with ion mobility-mass spectrometry for untargeted metabolomics in CHO cells |
| 10:20-10:45 | Alan Griffiths (LECO): Improving metabolite identification confidence in urine by transitioning to comprehensive chromatography |
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| 10:45-11:15 | Refreshments, networking, sponsor exhibits |
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| ***Scientific session five – Metabolomics - food, nutrition, natural products and health (Chair - Will Allwood, James Hutton Institute, Dundee)*** | |
| 11:15-11:40 | Gordon McDougall (James Hutton Institute, Dundee): Application of metabolomic approaches to the study of plant bioactive components relevant to health |
| 11:40-12:05 | Wendy Russel (Rowett Institute, University of Aberdeen): Domestication; changing our food metabolome |
| 12:05-12:30 | Rob Hancock (James Hutton Institute, Dundee): A transcriptomic and metabolomic atlas of blackcurrant fruit development |
| 12:30-12:55 | Nathan Hawkins (Anatune): The Golden Triangle and Why it Matters in Metabolomics Studies |
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| 12:55-13:55 | Lunch, networking, sponsor exhibits |
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| ***Scientific session six - Metabolomics technologies II (Chair - Gavin Blackburn, University of Glasgow)*** | |
| 13:55-14:20 | Stephen Brookes (Shimadzu): Transforming your data from just "Observation" to "Analysis" |
| 14:20-14:45 | Karl Burgess (Polyomics, University of Glasgow): 3 short stories in metabolomics |
| 14:45-15:10 | Joanne Connolly (Waters): Applications of the novel data independent acquisition mode SONAR for Discovery Metabolomics |
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| 15:10-15:30 | Refreshments, networking, sponsor exhibits |
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| ***Plenary Lecture (Chair - Wendy Russel, Rowett Institute, University of Aberdeen)*** | |
| 15:30-16:20 | Baukje de Roos (Rowett Institute, University of Aberdeen): Precision Nutrition - a Metabolomics Approach for the Next Generation of Dietary Intervention Studies |
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| 16:20-16:35 | Prizes |
| 16:35-16:40 | Announcement of SMN 2019 (David Watson) |

