

BMSS ISO-SIG Tuesday, 13th January 2009, Hunter Halls East, University of Glasgow

09:20 Welcome

Session I: Protein and Energy Metabolism

Chair:

09:30-10:10 Keynote 1: Rob Beynon, Liverpool

"Stable isotope strategies for quantitative proteomics"

10:10- Original Communications (OC, 15 + 5 minutes)

10:15-10:35 OC B1 Gary McCaw

"Tandem Mass Spectrometry and the Expansion of Newborn Screening"

10:35-10:55 OC B2 Emilie Combet *"Ingested nitrate as a source of luminal nitrosative stress at the human gastro-oesophageal junction"*

10:55-11:25 Coffee with sponsors; posters

11:30-11:50 OC B3 Simon Eaton *"Hypoglycaemia, poor weight gain and reduced adipose tissue in a premature infant: insights from stable isotopes"*

11:50-12:10 OC B4 Eduardo Ferrioli *"Under-reporting of food intake is frequent among Brazilian free-living older persons: a doubly-labelled water study"*

12:10-12:30 OC B5 Tom Preston

"Measuring the synthetic rate of slow turnover proteins"

12:30- Buffet lunch in the Melville Room; posters

Session 2: Lipids, Hormones and Models

Chair:

14:00-14:30 Keynote 2: Muriel Caslake, Glasgow

"Lipoprotein Kinetics"

14:35-14:55 OC B6 Alan Hunt *"Dynamic Lipidomics in vitro and in vivo"*

14:55-15:15 OC B7 Barbara Fielding *"The use of stable isotopes to investigate tissue-specific fatty acid trafficking in humans, in vivo"*

15:15-15:35 OC B8 Leanne Hodson *"Meal linoleate is partitioned to a greater extent in blood lipid fractions than oleate and palmitate"*

15:35-16:05 Tea with sponsors; posters

16:10-16:30 OC B9 Dave MacFarlane *"Use of stable isotopes to measure abnormalities of fatty acid metabolism in mouse models of fatty liver disease"*

16:30-16:50 OC B10 Katherine Hughes *"Development of a new method to measure cortisone production in man"*

16:50-17:10 OC B11 Roland Stimson *"Use of 9,11,12,12-²H₄-Cortisol Tracer to Quantify Cortisol Release from Subcutaneous and Visceral Adipose Tissue in Man"*

19:00 for 19:30 **BMSS ISO-SIG Dinner** in the Ferguson Room, University of Glasgow

BMSS ISO-SIG Wednesday, 14th January 2009, Hunter Halls East, University of Glasgow

Session 3: Carbohydrates, Methods and Instrumentation

Chair:

09:00-09:30 Keynote 3: Roel Vonk, Groningen

"Stable isotopes and genomic technologies: new adventures"

09:35-09:55 OC B12 Klaus Wutzke *"Effect of alcohol consumption on whole-body protein turnover in healthy adults"*

- 09:55-10:15 OC B13 Laura Hanske “*Urinary biomarkers of habitual dietary non-digestible carbohydrate and protein intake*”
- 10:15-10:45 Coffee with sponsors; posters
- 10:50-11:10 OC B14 Douglas Morrison “*Short chain fatty acid products of carbohydrate fermentation*”
- 11:10-11:50 OC B15 Ken Cook “*Ion Exchange-MS Application for Ionic and Polar Compounds*”
- 11:50-12:00 Close
- 12:00- Buffet lunch in the Melville Room, University of Glasgow
- 14:00- [SIMSUG 2009, 14th January 2009, Hunter Halls East, University of Glasgow](#)

BMSS ISO-SIG Posters

- PO B1 Kay “*LC-MS/MS as a tool for high-throughput multiplexed quantitation of serum proteins using stable isotope labelled peptides*”
- PO B2 Schierbeek “*Simultaneous measurement of both concentration and ¹³C enrichment of glutathione and glycine in one single run, using Liquid Chromatography Coupled to Isotope Ratio Mass Spectrometry (LC-IRMS)*”
- PO B3 Abaye “*Blood volume and red cell mass in children with moderate and severe malaria measured by chromium-53 dilution and GC/MS analysis*”
- PO B4 Moerdijk “*A versatile method for stable carbon-isotope (¹³C) analysis of carbohydrates by high-performance liquid chromatography – isotope ratio mass spectrometry*”
- PO B5 Barclay “*Stable Isotope Incorporation into Faecal Bacterial RNA Reflects Predictable Changes in Short Chain Fatty Acids*”
- PO B6 Botting “*The Synthesis of Isotopically Labelled Phytochemicals for Analysis and Metabolic Studies*”
- PO B7 Small “*Production of Complex Metaprobates: ¹³C-Labelled Cereals*”
- PO B8 Preston “*Measuring the Liquid Phase Gastric Emptying Rate of Sip Feeds*”
- PO S1 Mander “*Estimation of Gastric Emptying parameters from the ¹³C-octanoate breath test using Bayesian hierarchical methods*”
- PO S10 Bass “*Temporal and Spatial Variation in $\delta^{13}\text{C}$ -DIC and $\delta^{18}\text{O}$ -DO: a case study using Loch Lomond, Scotland*”
- PO S12 Price “*Evaluation of a new pyrolysis method for analysis of compound specific stable oxygen isotopes*”