

WORKSHOP ON NUTRITIONAL BIOMARKERS

October 28 – 29, 2015

Two-day workshop on diet-related and nutrition status biomarkers: A joint workshop of the Population Health Research Institute (PHRI) and the MRC Epidemiology Unit, Cambridge University

Agenda*

Wednesday October 28

The case for biomarkers of diet and nutritional status

8:30	<u>SESSION I: Biomarkers of diet/nutrition: relevance, availability</u> Chairs: Andrew Mente, Nita Forouhi	
8:35-9:05	The current use of nutritional biomarkers in epidemiological studies of health outcomes	Nita Forouhi
9:05-9:35	Classification of biomarkers: Back to basics – What is a biomarker? What is a helpful classification of biomarkers?	Gunter Kuhnle
9:35-10:05	What biological tissues to use for epidemiological studies, and what do they tell us?	Albert Koulman
10:05-10:45	<i>DISCUSSION AND BREAK</i>	
10:45	<u>SESSION II: Biomarkers and physiology – understanding the utility of specific biomarkers – focus on fats and fatty acids</u> Chair: Andrew Mente	
10:45-11:15	Fatty acids, cardiovascular disease and diabetes	Rajiv Chowdhury Nita Forouhi
11:15-11:45	Blood fatty acids – understanding the relevance of different tissue fractions and interpreting circulating concentrations	Leanne Hodson
11:45-12:15	Subcutaneous adipose tissue as a source for longer term biomarkers of diet	Alicja Wolk
12:15-12:45	The art of tracing dietary fat in humans	Leanne Hodson
12:45-13:45	<i>DISCUSSION AND LUNCH</i>	
13:45	<u>SESSION III: Biomarkers of environmental pollutants that influence diet factors</u> Chairs: Alicja Wolk, Rajiv Chowdhury	
13:45-14:45	Biomarkers of Environmental Metal Pollutants and Health Outcomes	Rajiv Chowdhury
14:45-15:15	Questionnaire-based estimates of long-term dietary exposure to polychlorinated biphenyles (PCB's) vs serum biomarkers: implications for studies of fish/seafood intake	Alicja Wolk
15:15-15:45	Obtaining and storing biological samples in epidemiology studies	Gui Pare Phil Britz-McKibbin
15:45-16:30	<i>PANEL DISCUSSION – topics from Day 1 of the workshop</i>	

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Novel nutritional biomarkers, lab issues, future directions

8:30	<u>SESSION IV: Approaches to identifying new biomarkers of diet/nutrition</u> Chair: Sonia Anand	
8:30-9:00	Biomarkers in dietary intervention trials in diabetes and coronary heart disease	David Jenkins
9:00-9:30	Using omics technologies for biomarker discovery	Albert Koulman
9:30-10:00	Microbiota-based biomarkers and nutritional modulation	Russ de Souza and Jennifer Stearns
10:00-10:20	TMAO and cardiovascular disease	Andrew Mente
10:20-10:40	Stable isotope biomarkers – potential for use in nutritional epidemiology	Gunter Kuhnle
10:40-11:15	<i>DISCUSSION AND BREAK</i>	
11:15	<u>SESSION V: Laboratory and related issues</u> Chairs: Leanne Hodson	
11:15-11:45	Frontline lab issues: (1) Upscaling throughput for large nutritional epidemiological studies and (2) Data processing in large scale metabolite profiling for nutritional biomarker research	Albert Koulman
11:45-12:15	Strengths and limitations of nutritional biomarkers (vs. self-report data)	Gunter Kuhnle
12:15-13:15	<i>DISCUSSION AND LUNCH</i>	
13:15	<u>SESSION VI: Future directions</u> Chairs: Nita Forouhi, Sonia Anand	
13:15-14:00	Identifying the users of nutritional biomarker information: academic, clinical, potential for personalised nutrition, surveillance/monitoring, policy	David Jenkins
14:00-14:45	<i>PANEL DISCUSSION:</i> Covering all topics of the workshop, and addressing issues of gaps in knowledge, future directions	
14:45-15:00	<i>CLOSING REMARKS</i>	Sonia Anand

*Please note...

Presentation times, topics and speakers are subject to change