

Exploring the Frontiers of Biology

Neural Stem Cells in Development and Disease

7 – 10 February 2010 • Wilton Park, West Sussex

Obesity: The Gene–Environment Interaction and its Implications

9 – 12 May 2010 • Melville Castle, Edinburgh

Stochasticity in Cell and Developmental Processes

17 – 20 October 2010 • Cumberland Lodge, Windsor

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**Obesity:
The Gene–Environment Interaction and its Implications**

Workshop Programme

**9th –12th May 2010
Melville Castle, Edinburgh**

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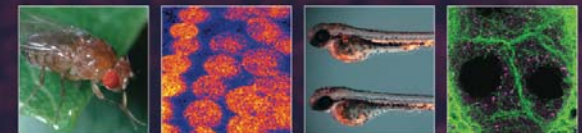
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Workshop Programme

Obesity: The Gene–Environment Interaction and its Implications

Scientific Organiser: John Speakman

Sunday 9th May 2010

18:00-18:45

Pre-dinner drinks – Library Bar

18:45-20:30

Dinner – Dining Room

20:30

Introductions by all delegates – Dining Room

John Speakman

Talk about the venue and the aims and format of the meeting



Monday 10th May 2010

Sessions to be held in the Ballroom unless otherwise specified

07:00-08:30	Breakfast – Dining Room
08:30-08:40	John Speakman Housekeeping
08:40-10:00	Session one: Chair Stephen O’Rahilly
08:40-09:20	Louis Pérusse Genetics of obesity: what have we learnt from the classical twin, family, linkage and association studies
09:20-10:00	Ruth Loos Insights from genome wide association studies
10:00-10:20	Coffee break – Library Bar
10:20-12:20	Session two: Chair Margriet Westerterp
10:20-11:00	John de Castro Social and environmental factors influencing food intake
11:00-11:40	Barbara Rolls The role of energy density
11:40-12:20	David Levitsky The Freshman 15
12:20-13:40	Lunch – Dining Room
13:40-15:00	Session three: Chair Deborah Clegg
13:40-14:20	Simon Luckman Hypothalamic and brainstem mechanisms regulating appetite
14:20-15:00	Eleftheria Maratos-Flier Brain reward systems and appetite

List of Attendees

David Allison	University of Alabama at Birmingham
Clifton Bogardus (Bo)	Phoenix Epidemiology and Clinical Research Branch
Molly Bray	University of Alabama at Birmingham
John Clapham	AstraZeneca R&D
Deborah Clegg	University of Texas Southwestern Medical Center
John de Castro	Sam Houston State University
Abdul Dulloo	University of Fribourg
Philippe Froguel	Imperial College London
Laurence Gruer	NHS Health Scotland
Sally Haw	MRC Human Genetics Unit
Johannes Hebebrand	University Duisburg-Essen
Marion Hetherington	University of Leeds
Suzanne Higgs	University of Birmingham
Susan Jebb	MRC Human Nutrition Research
David Levitsky	Cornell University
Ruth Loos	MRC Epidemiology Unit
Simon Luckman	University of Manchester
Amy Luke	Loyola University
Eleftheria Maratos-Flier	Beth Israel Deaconess Medical Center
Vidya Mohamed-Ali	University College London
Claire Moulton	The Company of Biologists
Stephen O’Rahilly	Institute of Metabolic Science
Mark Pereira	University of Minnesota
Louis Pérusse	Laval University
Tom Robinson	Stanford University
Barbara Rolls	Penn State University
Vivian Siegel	Disease Models & Mechanisms
Thorikild IA Sørensen	Institute of Preventive Medicine
John Speakman	University of Aberdeen
Michael Symonds	University of Nottingham
Klaas Westerterp	Maastricht University
Margriet Westerterp	Maastricht University

Challenge Teams

For session ten: *The 100 million dollar challenge*

- | | |
|--|--|
| <p>1) Team Dulloo
Abdul Dulloo
John de Castro
Stephen O’Rahilly
David Levitsky
Thorkild IA Sørensen
Sally Haw</p> | <p>2) Team Higgs
Suzanne Higgs
Susan Jebb
Simon Luckman
Amy Luke
Mark Pereira
Tom Robinson</p> |
| <p>3) Team Froguel
Philippe Froguel
David Allison
Barbara Rolls
Ruth Loos
Eleftheria Maratos-Flier
Vivian Siegel</p> | <p>4) Team Clapham
John Clapham
Louis Pérusse
Deborah Clegg
Molly Bray
Clifton Bogardus
Margriet Westerterp</p> |
| <p>5) Team Mohamed-Ali
Vidya Mohamed-Ali
Klaas Westerterp
Marion Hetherington
Johannes Hebebrand
Michael Symonds
Laurence Gruer</p> | |

15:00-15:20

15:20-17:20

15:20-16:00

16:00-16:40

16:40-17:20

17:20-18:00

18:00-18:30

18:30-20:00

20:00-21:00

Tea break – Library Bar

Session four:

Chair **Laurence Gruer**

Molly Bray

Genes for physical activity

Amy Luke

Effects of physical activity on weight gain:
longitudinal studies

Tom Robinson

TV viewing and obesity

Free time

Pre-dinner drinks – Library Bar

Dinner – Dining Room

Session five – Dining Room

Discussion – Physical activity or food intake

Discussion leader **Susan Jebb**

Tuesday 11th May 2010

07:00-08:30 **Breakfast** – Dining Room

08:30-08:40 **John Speakman**
Housekeeping

08:40-10:00 **Session six:**
Chair **Johannes Hebebrand**

08:40-09:20 **Mark Pereira**
Food convenience stores, soda intake and obesity

09:20-10:00 **Thorkild IA Sørensen**
Causal inferences from historical and sociodemographic relationships of obesity

10:00-10:20 **Coffee break** – Library Bar

10:20-11:40 **Session seven:**
Chair **Sally Haw**

10:20-11:00 **Michael Symonds**
Epigenetic causes of obesity

11:00-11:40 **Clifton Bogardus**
A gene–environmental interaction case study: the Pima Indians

11:40-12:40 **Session eight:**
Discussion – Outstanding questions in the genetic causes of obesity
Discussion leader **David Allison**

12:40-14:00 **Lunch** – Dining Room

14:00-15:00 **Session nine:**
Discussion – outstanding questions in the environmental causes of obesity
Discussion leader **Marion Hetherington**

15:00-15:20 **Tea break** – Library Bar

15:20-18:00

Session ten: The 100 million dollar challenge
Team Dullo *Dining Room*
Team Higgs *Boardroom*
Team Froguel *Anteroom*
Team Clapham *Arniston Room*
Team Mohamed-Ali *Traquair Room*

18:00-19:00

Free time

19:00-19:30

Pre-dinner drinks – Library Bar

19:30-21:00

Dinner – Ballroom

21:00-22:00

Session eleven – Ballroom
10 minute reports back from 100 million dollar challenge teams
Team Dullo
Team Higgs
Team Froguel
Team Clapham
Team Mohamed-Ali

22:00

John Speakman
Closing remarks

Wednesday 12th May 2010

07:00-08:30

Breakfast – Dining Room
Delegates depart