Obesity: The Gene–Environment Interaction and its Implications

Workshop Programme

9th – 12th May 2010
Melville Castle, Edinburgh
The use of model organisms to advance human health

Editor-in-Chief: Vivian Siegel

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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
Thorkild 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

1) Team Dulloo
   Abdul Dulloo
   John de Castro
   Stephen O’Rahilly
   David Levitsky
   Thorkild IA Sørensen
   Sally Haw

2) Team Higgs
   Suzanne Higgs
   Susan Jebb
   Simon Luckman
   Amy Luke
   Mark Pereira
   Tom Robinson

3) Team Froguel
   Philippe Froguel
   David Allison
   Barbara Rolls
   Ruth Loos
   Eleftheria Maratos-Flier
   Vivian Siegel

4) Team Clapham
   John Clapham
   Louis Pérusse
   Deborah Clegg
   Molly Bray
   Clifton Bogardus
   Margriet Westerterp

5) Team Mohamed-Ali
   Vidya Mohamed-Ali
   Klaas Westerterp
   Marion Hetherington
   Johannes Hebebrand
   Michael Symonds
   Laurence Gruer

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
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>07:00-08:30</td>
<td>Breakfast – Dining Room</td>
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<td>08:30-08:40</td>
<td>John Speakman</td>
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<td>Housekeeping</td>
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<td>08:40-10:00</td>
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<td>Chair Johannes Hebebrand</td>
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<td>08:40-09:20</td>
<td>Mark Pereira</td>
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<td>Food convenience stores, soda intake and obesity</td>
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<td>09:20-10:00</td>
<td>Thorkild IA Sørensen</td>
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<td>Causal inferences from historical and sociodemographic relationships of obesity</td>
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<td>10:00-10:20</td>
<td>Coffee break – Library Bar</td>
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<td>10:20-11:40</td>
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<td>Chair Sally Haw</td>
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<td>10:20-11:00</td>
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<td>Epigenetic causes of obesity</td>
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<td>11:00-11:40</td>
<td>Clifton Bogardus</td>
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<td>A gene–environmental interaction case study: the Pima Indians</td>
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<td>11:40-12:40</td>
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<td>Discussion – Outstanding questions in the genetic causes of obesity</td>
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<td>Discussion leader David Allison</td>
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<td>12:40-14:00</td>
<td>Lunch – Dining Room</td>
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<td>14:00-15:00</td>
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<td>Discussion – outstanding questions in the environmental causes of obesity</td>
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<td>Discussion leader Marion Hetherington</td>
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<td>15:00-15:20</td>
<td>Tea break – Library Bar</td>
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**Tuesday 11th May 2010**

**15:20-18:00**

**Session ten:** The 100 million dollar challenge

*Team Dulloo* 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 Dulloo*  
*Team Higgs*  
*Team Froguel*  
*Team Clapham*  
*Team Mohamed-Ali*

**Wednesday 12th May 2010**

**07:00-08:30**

**Breakfast** – Dining Room

**Delegates depart**