Nutrition, Genes, and Physical Activity:
Understanding Obesity from Conception and Beyond

Program Schedule

Tuesday, August 11, 2009

Registration Check-In and Welcome Reception
5:00 p.m. - 7:00 p.m. (Ground Floor Lobby, Life Sciences Building)

Inaugural Address (This address open to the public. No registration fee necessary.)

**Nutrigenomics and obesity: Implications for public health**
John Milner, National Cancer Institute
7:00 p.m. - 8:30 p.m.
(100 Life Sciences Building)

Wednesday, August 12, 2009

Registration Check-In 7:30 a.m. - 9:30 a.m.
(1st Floor Lobby, Life Sciences Building)

**Industrial Exhibits**
10:00 a.m. - 3:00 p.m.
(Willaman Gateway, Connecting Life Sciences & Chemistry Buildings)

**Session I Nutrition, eating behavior, and metabolic syndrome**
8:00 a.m. - 12:00 p.m.
(100 Life Sciences Building)

*The Mediterranean diet, weight loss, and the metabolic syndrome in men*
Benoît Lamarche, INAF Université Laval
8:00 a.m. - 9:00 a.m.
Eating competence as a biobehavioral phenomenon  
Barbara Lohse, The Pennsylvania State University  
9:00 a.m. - 9:35 a.m.

Sarcopenic obesity: a smoldering inflammatory condition?  
Gordon Jensen, The Pennsylvania State University  
9:35 a.m. - 10:10 a.m.

Morning Break  
10:10 a.m. - 10:50 a.m.

Facts and fictions of food addictions  
Rebecca Corwin, The Pennsylvania State University  
10:50 a.m. - 11:25 a.m.

Obesity and reproduction: Implications for women with PCOS  
Richard S. Legro, The Pennsylvania State University  
College of Medicine at Hershey  
11:25 a.m. - 12:00 p.m.

Early Session V  
Life stage influences on obesity  
12:00 p.m. - 12:35 p.m.

Obesity among older persons:  
Aging in place takes on a new meaning  
Gordon Jensen, The Pennsylvania State University

Lunch Provided  
12:35 p.m. - 1:30 p.m.  
(Willaman Gateway connecting Life Sciences & Chemistry Building)

Session II  
Nutrition, target proteins, and obesity  
1:30 p.m. - 5:30 p.m.  
(100 Life Sciences Building)
Blunted response of reward circuitry predicts weight gain when coupled with genetic risk for reduced dopamine signaling
Eric Stice, Oregon Research Institute
1:30 p.m. - 2:30 p.m.

Branched chain amino acids, BCAA metabolism, and obesity
Chris Lynch, The Pennsylvania State University
College of Medicine at Hershey
2:30 p.m. - 3:05 p.m.

Stearoyl-CoA desaturase and its relation to high-carbohydrate diets and obesity
James Ntambi, University of Wisconsin
3:05 p.m. - 3:40 p.m.

Afternoon Break
3:40 p.m. - 4:20 a.m.

Genomic variations, lifestyle, and metabolic disorders
Lu Qi, Harvard University School of Public Health
4:20 p.m. - 4:55 p.m.

Metabolic regulation by nuclear receptor PPAR delta
Chih-Hao Lee, Harvard University School of Public Health
4:55 p.m. - 5:30 p.m.

Program Break
5:30 p.m. - 7:30 p.m.

Keystone Address
(This address open to the public. No registration fee necessary.)
Nutritional systems biology approaches in understanding the role of diet as a modifying factor in determining the obese phenotype
Ben van Ommen, TNO Quality of Life
7:30 p.m. - 9:00 p.m.
(100 Life Science Building)
Thursday, August 13, 2009
Session III
Physiological and psychological effects of exercise on obesity
8:00 a.m. - 10:10 a.m.
(100 Life Sciences Building)

Move it to lose it: What is the role of physical activity in body weight reduction?
John M. Jakicic, University of Pittsburgh
8:00 a.m. - 9:00 a.m.

How much and what type of exercise for what cardiometabolic health benefits
Cris Slentz, Duke University
9:00 a.m. - 9:35 a.m.

Exercising for two: Examining the psychological correlates of exercising in pregnancy
Danielle Symons Downs, The Pennsylvania State University
9:35 a.m. - 10:10 a.m.

Morning Break
10:10 a.m. - 10:50 a.m.
Session IV
Effects of bioactive molecules on adipocytes and adiposity
10:50 a.m. - 12:35 p.m.
(100 Life Sciences Building)

Adipose-derived signals induce hyperplasia of the mammary epithelium in response to the weight loss supplement 10E12Z conjugated linoleic acid
Jack Vanden Heuvel, The Pennsylvania State University
10:50 a.m. - 11:25 a.m.

Prevention of obesity and metabolic syndrome by the tea polyphenol, epigallocatechin-3-gallate
Joshua Lambert, The Pennsylvania State University
11:25 a.m. - 12:00 p.m.
Different effects of fatty acid classes on weight loss
Penny Kris-Etherton, The Pennsylvania State University
12:00 p.m. - 12:35 p.m.

Lunch Break
12:35 p.m. - 1:30 p.m.

Tours (optional)
1:30 p.m. - 3:30 p.m.

Food Science Building and Creamery
1:30 p.m. - 2:30 p.m. or 2:30 - 3:30 p.m.
(Food Science Building, Main Entrance)

Campus
1:30 p.m. - 2:30 p.m. or 2:30 - 3:30 p.m.
(Food Science Building, Main Entrance)

The General Clinical Research Center (GCRC)
3:00 p.m. - 3:30 p.m.
(GCRC Main Entrance off of Atherton Street)

Poster Presentations and Concurrent Reception
4:00 p.m. - 7:00 p.m.
(Willaman Gateway, Connecting Life Sciences & Chemistry Buildings)

Friday, August 14, 2009

Session V
Life stage influences on obesity
8:00 a.m. - 10:10 a.m.
(100 Life Science Building)

Dietary fat and maternal fetal programming: Increased proliferation of hypothalamic peptide-producing neurons that increase risk for overeating and obesity in the offspring
Sarah Leibowitz, The Rockefeller University
8:00 a.m. - 9:00 a.m.
Prevention of obesity: Is infancy too early to start?
Cynthia Bartok, The Pennsylvania State University
9:00 a.m. - 9:35 a.m.

Developmental and environmental factors predisposing children to obesity in adulthood
Daniel Hoffman, Rutgers University
9:35 a.m. - 10:10 a.m.

Morning Break
10:10 a.m. - 10:50 a.m.

Capstone Address (This address open to the public. No registration fee necessary.)
High satiety: Eating less in a obesogenic environment
Barbara Rolls, The Pennsylvania State University
10:50 a.m. - 11:50 a.m.

Closing Remarks
Jack Vanden Heuvel and Penny Kris-Etherton
11:50 a.m. - 12:00 p.m.