



Pennington Scientific Symposium

Circadian Biology and Sleep: Missing Links in Obesity and Metabolism?

April 27-28, 2009

Symposium Chairs

Molly Bray, PhD

Associate Professor of Pediatrics
Baylor College of Medicine
Children's Nutrition Research Center

Jeffrey Gimble, MD, PhD

Professor, Stem Cell Biology
Pennington Biomedical Research Center
Louisiana State University System

Andrew Young, PhD

Chief, Military Nutrition Division
U.S. Army Research Institute of Environmental Medicine

This symposium was coordinated by the
Division of Education

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Phillip J. Brantley, PhD, Director
Anne Schulte, Assistant Director

Monday, April 27

SESSION CHAIR: Molly Bray, PhD - Molecular Mechanisms in Circadian Biology and Metabolism

8:00-8:30 **Claude Bouchard, PhD**
Pennington Biomedical Research Center: Mission, Structure, Programs and Financing

8:30-9:30 **Joseph Takahashi, PhD**
Northwestern University
Keynote Address: Uncovering the Molecular Basis of Circadian Biology

9:30-10:15 **Joseph Bass, MD, PhD**
Northwestern University Feinberg School of Medicine
Obesity and Metabolism in the Clock Mutant Mice: Lessons for Human Metabolism

10:15-10:30 **BREAK**

10:30-11:15 **Carla Green, PhD**
University of Virginia
Nocturnin: A Novel Circadian and Metabolic Regulator

11:15-12:00 **Jared Rutter, PhD**
University of Utah School of Medicine
Nutrient sensing and signaling: Roles in energy balance and elsewhere

12:00 – 1:00 **LUNCH**

SESSION CHAIR: Jeff Gimble, MD, PhD - Circadian Biology of Sleep

1:00-1:45 **Albert Stunkard, MD**
University of Pennsylvania
A Biobehavioral Model of the Night Eating Syndrome

1:45-2:30 **Nicolas Cermakian, PhD**
McGill University
Regulation of central and peripheral circadian rhythms in mice and humans

2:30-2:45 **BREAK**

2:45-3:30 **Jonathan Johnston, PhD**
University of Surrey
Adipocyte rhythmicity in vitro

3:30-4:15 **James Gangwisch, PhD**
Columbia University
The Epidemiological Relationships Between Sleep Patterns and Metabolic Disorders

4:15-5:00 **Round Table Discussion**

5:00 **Hospitality Suite**

6:30 **Tour and Dinner for Out of Town Attendees - PBRC**

9:00 **Hospitality Suite**

Tuesday, April 28

SESSION CHAIR: Tom Balkin, PhD – Central & Peripheral Metabolic Tissues and Circadian Mechanisms

8:30-9:15 **Andrew Butler, PhD**
The Scripps Research Institute
The role of melanocortin neuronal pathways in circadian biology: a new homeostatic output involving melanocortin-3 receptors?

9:15-10:00 **Molly Bray, PhD**
Baylor College of Medicine
Genetic Variation in Circadian Genes: Relation to Obesity and Adipocyte Biology

10:00 – 10:15 **BREAK**

10:15-11:00 **Gregory Sutton, PhD**
Pennington Biomedical Research Center. LSU System
Maternal Imprinting and Metabolism: A Circadian Relationship?

11:00-11:45 **Jeff Gimble, MD, PhD**
Pennington Biomedical Research Center, LSU System
Food Entrainment and the Circadian Regulatory Apparatus in Peripheral Tissues

11:45-12:45 **Lunch**

SESSION CHAIR: Michael Twery, PhD - Integrating Sleep, Metabolism, and Circadian Pathways

12:45-1:30 **Martin Young, PhD**
Baylor College of Medicine
The Circadian Biology of Cardiac Tissues: A Metabolic Model for Understanding Human Metabolic Syndrome

1:30-2:15 **Tracy Rupp, PhD**
Walter Reed Army Institute of Research
Long-term effects of nightly sleep duration on cognitive performance, alertness, metabolism and obesity

2:15-2:30 **BREAK**

2:30-3:15 **Alexandros Vgontzas, MD**
Penn State College of Medicine
Meaningful subtyping of Obesity based on Sleep Disturbances

3:15-3:45 **Michael Twery, PhD**
National Heart, Lung, and Blood Institute
The NIH Perspective

3:45 - 5:00 **Consensus Discussion**
Address pre-symposium “critical questions in the field” and any additional questions raised during the meeting. Develop consensus for meeting report document.

5:00 **Hospitality Suite**
7:00 **Dinner - Lod Cook Alumni Center**
9:00 **Hospitality Suite**