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 Resarch Institute of Environmental Medicine

This symposium was coordinated by the Division of Education
Pennington Biomedical Research Center
Louisiana State University System
6400 Perkins Road
Baton Rouge, LA  70808-4124
Phone:  225/763-2629       Fax:  225/763-3045

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