

Advances and Novel Targets in

ENERGY BALANCE & OBESITY



HARVARD
MEDICAL SCHOOL
DIVISION OF NUTRITION
and
NUTRITION OBESITY
RESEARCH CENTER
AT HARVARD

HARVARD SCHOOL
OF PUBLIC HEALTH
DEPARTMENT OF NUTRITION



July 9–10, 2014

DAY 1: Wednesday, July 9, 2014—7:15 a.m.–4:30 p.m.

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HARVARD MEDICAL SCHOOL
260 LONGWOOD AVENUE
BOSTON, MA

Presented by

HARVARD MEDICAL SCHOOL
DIVISION OF NUTRITION
and NUTRITION OBESITY
RESEARCH CENTER AT HARVARD

in conjunction with

THE DEPARTMENT OF NUTRITION
HARVARD SCHOOL OF PUBLIC
HEALTH

and

BOSTON NUTRITION OBESITY
RESEARCH CENTER

Welcome W. Allan Walker, MD - Harvard Medical School
Steven Grinspoon, MD - Harvard Medical School

SESSION I: Determinants of Energy Expenditure and Balance

Moderator: Hideo Makimura, MD, PhD - Harvard Medical School

Leptin Signaling in Central Appetite Pathways

Rexford S. Ahima, MD, PhD - University of Pennsylvania

Brown Fat: Critical Determinant of Energy Expenditure

Aaron Cypess, MD, PhD - Harvard Medical School

Metabolic Flexibility and Substrate Partitioning in Energy Balance

Eric Ravussin, PhD - Pennington Biomedical Research Center

Gastric Peptides in Energy Balance

David E. Cummings, MD - University of Washington

The Effect of Sleep on Energy Balance

Eve Van Cauter, PhD - The University of Chicago

SESSION II: Current Therapies for Obesity and Fat Accumulation

Moderator: Scott Butsch, MD, MSc - Massachusetts General Hospital

Recently Approved Therapeutics for Obesity

Caroline M. Apovian, MD, FACP, FACN - Boston University School of Medicine

Targeting of Visceral and Ectopic Adipose Depots

Steven K. Grinspoon, MD - Harvard Medical School

Dietary Strategies for Weight Loss; More than Just Calories

David S. Ludwig, MD, PhD - Harvard Medical School

Behavioral Modification in Weight Loss Therapy

John P. Foreyt, PhD - Baylor College of Medicine

A Perspective on the FDA Approval Process

Abraham Thomas, MD, MPH - Henry Ford Hospital

DAY 2: Thursday, July 10, 2014—7:30 a.m.–11:45 a.m.

Welcome George L. Blackburn, MD, PhD - Harvard Medical School

SESSION III: Novel Therapeutics to Alter Energy Balance

Moderator: Miguel Alonso-Alonso, MD, MPhil - Beth Israel Deaconess Medical Center

A Novel Muscle Protein Regulating Energy Balance: Irisin

Bruce M. Spiegelman, PhD - Harvard Medical School

Effects of Gastric Bypass on Energy Therapeutics

Lee M. Kaplan, MD, PhD - Massachusetts General Hospital

Novel Effects of Bile Acids on Energy Regulation

Karen K. Ryan, PhD - University of Cincinnati

Potential Effects of Altered Gut Microbiota on Energy Balance

Jonathan Krakoff, MD - National Institutes of Health

Sirtuins in Metabolism and Energy Balance

Marcia C. Haigis, PhD - Harvard Medical School

Closing Remarks

OBJECTIVES

- 1 Review the basic aspects of biological, neurological, nutritional, and behavioral sciences that are relevant to food intake and energy balance regulation.
- 2 Describe the recent advances on the mechanisms influencing food intake and energy balance regulation.
- 3 Identify the novel approaches for obesity prevention and treatment.
- 4 Provide top researchers, opinion leaders, and educators with the newest scientific findings related to nutrition and energy balance across the lifespan.