

# NAASO Program Schedule

NAASO 2004 Scientific Meeting  
November 14-18, 2004  
Caesars Palace, Las Vegas, Nevada

## **PRE-CONFERENCE SESSIONS** **Sunday, November 14, 2004**

2:00 p.m. – 5:00 p.m.

### ***Development of Anti-obesity Drugs with Perspectives from Industry, Regulators and Researchers***

Chair: Eric Ravussin, PhD

Florentine I/II

For complete program see last page.

6:00 p.m. – 7:30 p.m.

### ***Opening Session – President's Lecture***

Chair: Barbara E. Corkey, PhD

Carmine Famiglietti, Screenwriter, Producer and Actor of 'Lbs'

Caesars Event Center

7:30 p.m. – 8:30 p.m.

### ***Grand Opening Reception***

Exhibit Hall, Palace Ballroom

## **SCIENTIFIC MEETING**

**Monday, November 15, 2004**

8:00 a.m. – 9:00 a.m.

Key Lecture

The Genetics of Complex Diseases: Current Controversies and Future Directions

Chair: Anthony G. Comuzzie, PhD

John Blangero, PhD

Florentine I/II

Key Lecture

Adipocytes and Adipokines

Chair: Andrew S. Greenberg, MD

Phillip E. Scherer, PhD

Roman IV

Key Lecture

Obesity, Health Disparities, and the Economics of Food Choice

Chair: Donna H. Ryan, MD

Adam Drewnowski, PhD

Roman III

9:15 a.m. – 10:15 a.m.

Key Lecture

Genetics in the Post-Genome Era

Chair: Sheila Collins, PhD

John Quackenbush, PhD

Roman IV

Key Lecture  
Why Obesity May Cause Cancer and Reduce Survival Time  
Chair: Tim R. Nagy, PhD  
Marilie Gammon, PhD  
Roman III

10:30 a.m. – 12:30 p.m.

Oral Session  
Genes and Targets  
Abstracts 1-OR to 8-OR  
Florentine I/II  
Fat and Insulin Resistance  
Abstracts 9-OR to 16-OR  
Florentine III  
Behavioral and Psychosocial Aspects  
Abstracts 17-OR to 24-OR  
Roman III  
Obesity Prevention in Children  
Abstracts 25-OR to 31-OR  
Roman IV

12:30 p.m. to 1:45 p.m.

Exhibit Hall, Palace Ballroom  
Poster Presenters in the following categories will be in attendance at their posters today.

- Clinical Interventions
- Hot Topics
- Human Behavior and Psycho-Social Aspects
- Transgenic Models

1:45 p.m. – 3:30 p.m.

Tutorial Workshop  
Visualizing Fat Droplet Molecules and Movements  
Florentine I/II  
Chair: Constantine Londos, PhD  
Imaging Techniques for Body Composition Analysis In vivo  
Dan Stein, MD  
Perilipin as the Major Lipid-droplet Binding Protein of the Adipocyte  
Constantine Londos, PhD  
The Dynamic Distribution of PAT Family Proteins during Metabolism  
Perry E. Bickel, MD  
Imaging Preadipocytes: Are Different Fat Depots Separate Mini-organs?  
James Kirkland, MD, PhD

3:15 p.m. – 3:30 p.m.

Oral Abstract Presentation, Abstract 135-OR

Clinical Workshop  
Office-based Care of Obese Children  
Roman III  
Moderator: Robert Berkowitz, MD  
Practical Aspects of Developing a Family-based Weight Management  
Melinda S. Sothorn, PhD  
Dietary Approaches to Weight Management in Children  
Heidi Schumacher Gereighty, LDN, RD, CDE  
Obesity Pharmacotherapy in Children and Adolescents  
Jack A. Yanovski, MD, PhD  
Case Discussion with Robert Berkowitz, Melinda Sothorn, Heidi Schumacher Gereighty and Jack Yanovski

Oral Session  
Obesity and Mortality  
Abstracts 32-OR to 38-OR  
Roman IV

3:45 p.m. – 5:30 p.m.

Symposium  
Role of Mitochondrial Dysfunction in Insulin Resistance  
Florentine I/II

Chair: David E. Kelley, MD  
PPAR-d and Mitochondrial Function  
Sylvia Corvera, MD  
Results from Muscle Biopsies in Humans  
David E. Kelley, MD  
Use of Magnetic Resonance Spectroscopy for the Study of Mitochondrial Function in Humans  
Kitt Falk Petersen, MD

Symposium  
Adipose Tissue Metabolism: Constant or Pulsatile  
Roman I

Chair: Samuel Klein, MD  
Pulsatile Lipolysis In Vivo  
Richard N. Bergman, PhD  
Pulsatility of Adipocyte Metabolism In Vivo  
Barbara E. Corkey, PhD  
Pulsatility in a Human Adipose Tissue Depot  
Simon W. Coppock, MD

Symposium  
Binge Eating Disorder  
Roman II

Chair: Susan Z. Yanovski, MD  
Overview and Conceptual Issues  
Michael James Devlin, MD  
Pharmacologic Approaches to Management of Binge Eating  
Carlos M. Grilo, PhD  
Cognitive Behavioral Therapy and IPT Approaches to Binge Eating  
Richard Ian Stein, PhD  
Do Obese Binge Eaters Need Different Treatment than Obese Non-Binge Eaters?  
Tom Wadden, PhD

Clinical Workshop  
Practical Guide for Office Management of Weight Control  
Roman III

Moderator: Arthur Frank, MD  
Practical Aspects of Implementing a Weight Management Program  
Arthur Frank, MD  
Tools that Work  
Robert F. Kushner, MD  
Weight Management for Diabetic Patients  
Holly Wyatt, MD  
Case Discussion: Patient-oriented Management Questions  
with Don Schumacher, Peter Vash, Robert Kushner, and Arthur Frank

Symposium  
Environmental Barriers to Healthy Behavior  
Roman IV

Chair: Simone French, PhD  
Food Availability in Communities  
Karen Glanz, PhD, MPH  
Urban Trails  
Kim Reynolds, PhD  
Built and Social Environment  
Penny Gordon-Larsen, PhD

**Tuesday, November 16, 2004**

8:00 a.m. – 9:30 a.m.

NAASO Awards Presentation  
Roman III

9:45 a.m. – 10:45 a.m.

Key Lecture  
Leptin Physiology in Weight-reduced Humans  
Florentine I/II  
Chair: Steve Heymsfield, MD  
Rudolph L. Leibel, MD

Oral Session  
Metabolic/Comorbidities  
Abstracts 39-OR to 42-OR  
Roman III  
Body Composition  
Abstracts 43-OR to 46-OR  
Roman IV

11:00 a.m. – 12:30 p.m.

Oral Session  
Modulators of Basal and Catecholamine-Regulated Lipolysis  
Abstracts 47-OR to 52-OR  
Florentine I/II  
Regulation of Energy Balance I  
Abstracts 53-OR to 58-OR  
Florentine III  
Pediatric Obesity  
Abstracts 59-OR to 64-OR  
Roman III  
Economics  
Abstracts 65-OR to 69-OR  
Roman IV

12:30 p.m. – 1:45 p.m.

Exhibit Hall, Palace Ballroom

Poster Presenters in the following categories will be in attendance at their posters today.

- Neural Energy Balance Regulation
- Physiology of Obesity – Human and Animal
- Prevention and Public Health

1:45 p.m. – 3:30 p.m.

Symposium

The Interplay of Cell Types in Adipose Tissue and Alterations in Obesity  
Supported by an unrestricted educational grant from sanofi-aventis.

Florentine I/II

Chair: Robert H. Eckel, MD

What Human Adipose Tissue Tells Us

Susan K. Fried, PhD

Macrophages in Adipose Tissue

Anthony Ferrante, MD, PhD

Fat Cell Progenitors

Ormond MacDougald, PhD

Symposium

Nutrient Metabolism and Control of Energy Expenditure

Florentine III

Chair: Eric Ravussin, PhD

How DGAT1 Deficiency Increases Energy Expenditure in Metabolism

Hubert C. Chen, MD

SCD1

James Mukasa Ntambi, PhD

Acetyl-CoA Carboxylase 2: A Potential Target Against Obesity and Type 2 Diabetes

Salih J. Wakil, PhD

PGC1

Pere Puigserver, PhD

Symposium

Weight Management Issues in the Military

Roman III

Chair: Col. Karl E. Friedl, PhD

Scope of the Problem

Col Karl E. Friedl, PhD

Army Weight Management

Col. Gaston Bathalon, PhD

Air Force Weight Management

Maj. Christine Hunter, PhD

The VA Answer to the Obesity Crisis: The MOVE! Program

Richard Harvey, PhD

Clinical Workshop

Surgical Treatment of Obesity

Florentine IV

Chair: Walter Pories, MD

Medical Issues in Pre-op Assessment for Bariatric Surgery

Patricia S. Choban, MD

Nutritional Management of the Bariatric Surgical Patient

Allison Schimmel Matson, MBA, MS, RD

Psychological Evaluation of the Bariatric Surgical Patient

Patrick M. O'Neil, PhD

Symposium

Breastfeeding and Early Life Weight Gain as Predictors of Obesity

Roman IV

Chair: Aviva Must, PhD

Early Rapid Weight Gain as a Risk Factor for Obesity

Nicolas Stettler, MD, MSCE

Rapid Weight Gain in Infancy and Insulin Resistance

Tim Cole, PhD, ScD

Breastfeeding: Is it Really Protective?

Matthew William Gillman, MD

3:45 p.m. – 5:15 p.m.

Oral Session

Genetic Epidemiology of Human Obesity

Abstracts 70-OR to 75-OR

Florentine IV

3:45 p.m. – 5:30 p.m.

Symposium

New Genes and Lessons from Simple Organisms

Florentine I/II

Chair: Christopher B. Newgard, PhD

Invertebrate Models of Fat Storage

Jonathan Graff, MD, PhD

Caloric Restriction and Longevity: From Yeast to Mammals

Frederic Picard, PhD

Obesity Genes Uncovered in Drosophila

Cord Dohrmann, PhD

Symposium

Contributions to CNS Control of Feeding Behavior from The Hypothalamus and from The Medulla

Florentine III

Chair: Harvey J. Grill, PhD

Integration and Processing of Signals Indicating Energy Status in the Arcuate Nucleus

David Spanswick, PhD

Leptin Action in Forebrain Regulates Hindbrain Response to Satiety Signals

Greg Morton, PhD

The Dorsal Vagal Complex as an Ingestive Control Center: Insights from Developing Rats

Linda Rinaman, PhD

The Dorsal Vagal Complex is a Site of Energy Status Signal Detection and Integration for the Control of Energy Balance

Harvey J. Grill, PhD

Symposium

Exercise as a Thermogenic Mechanism

Roman III

Chair: Eric Ravussin, PhD

Low Physical Activity of Modern Homo Sapiens

Steve Heymsfield, MD

Evidence for Facultative Thermogenesis in Humans

Eric Ravussin, PhD

Is Muscle the Thermogenic Tissue in Humans?

Matthew W. Hulver, PhD

Symposium

Epidemiology of Obesity and Its Comorbidities in Latin American Populations

Roman IV

Co-chairs: Raul A. Bastarrachea, MD and Jose R. Fernandez, PhD

South America

Margarita E. Diaz, MD

Mexico

Pedro Arroyo, MD, MPH, MSc

U.S. Border Populations

Martha L. Cruz, DVM, DPhil

7:00 p.m. – Midnight

NAASO Gala

Caesars Palace Event Center

**Wednesday, November 17, 2004**

8:00 a.m. – 10:00 a.m.

Lilly Scientific Achievement Award and Ethan Sims Young Investigators Award Presentations

Roman III

10:00 a.m. – 10:30 a.m.

Coffee Break

10:30 a.m. – 12:30 p.m.

Oral Session

Inflammatory Mediators in Obesity

Abstracts 76-OR to 83-OR

Florentine I/II

Regulation of Energy Balance II

Abstracts 84-OR to 89-OR

Florentine III

Dietary, Exercise and Behavioral Treatments

Abstracts 90-OR to 97-OR

Roman III

Gene Mapping in Human Obesity

Abstracts 98-OR to 105-OR

Roman IV

12:30 p.m. – 1:45 p.m.

Exhibit Hall, Palace Ballroom

Poster Presenters in the following categories will be in attendance at their posters today.

- Adipose Tissue Metabolism
- Molecular and Cellular Regulation
- Population Studies

1:45 p.m. – 2:45 p.m.

Key Lecture

Fatty Acid Synthase and Central Control of Energy Balance

Florentine I/II

Chair: Randy J. Seeley, PhD

Gabriele V. Ronnett, MD, PhD

Key Lecture

Preventing Obesity by Attacking the Toxic Environment: Perhaps Our Only Hope

Roman III

Chair: Thomas Wadden, MD

Kelly D. Brownell, PhD

1:45 p.m. – 3:30 p.m.

Symposium

Cachexia: Neural Systems and Neuropharmacology

Florentine III

Chair: Wolfgang Langhans, DVM, PhD

Catabolism of Adipose Tissue and Skeletal Muscle in Cancer Cachexia by Tumor Products

Mike J. Tisdale, PhD, DSc

Mechanisms of Anorexia and Cachexia during Infections

Wolfgang Langhans, DVM, PhD

Transport of Cytokines across the BBB: Principles and Concepts Important to Feeding

Williams A. Banks, MD

Hypothalamic Melanocortin and Interleukin-1 $\beta$  Signaling during Inflammation-induced Anorexia

Brent E. Wisse, MD

Symposium

The Exercise-Metabolism Link: The Impact on Energy Balance and Weight Control

Roman IV

Chair: John M. Jakicic, PhD

The Impact of Energy Expenditure on Energy Balance and Weight Control

James O. Hill, PhD

Impact of Increasing Energy Expenditures on Quality and Quantity of Adipose and Lean Tissue

Robert Ross

Understanding the Physiological Impact of Exercise and Energy Expenditure in Obesity

Bret Goodpaster, PhD

Clinical Workshop

Tools that Work: Diet, Drugs and Behavior Change

Supported by an unrestricted educational grant from sanofi-aventis

Florentine IV

Chair: Louis J. Aronne, MD

Prescribing for Obesity

Daniel H. Bessesen, MD

Popular Diets, Portion-controlled Diets: How to Make the Best of the Options

Cathy A. Nonas, RD, CDE

Managing Non-adherence and Relapse

Gary D. Foster, PhD

Case Discussion: Daniel H. Bessesen, Cathy A. Nonas, Gary D. Foster and Donna Ryan

3:00 p.m. – 3:30 p.m.

Oral Session

Obesity and Cancer Mortality

Abstracts 106-OR to 107-OR

Roman III

3:45 p.m. – 4:45 p.m.

Key Lecture

Role of Intra-adipose Production of Cortisol in Obesity

Florentine I/II

Chair: Rudolph L. Leibel, MD

Brian Walker, MD

3:45 p.m. – 5:30 p.m.

Symposium

Parallels between Food Reward and Drug Addiction: Recent Insights

Florentine III

Chair: Ann E. Kelley, PhD

Brain Networks and Motivation for Food: Integration of Cognition, Reward and Energy

Ann E. Kelley, PhD

'Liking' and 'Wanting' Mechanisms in Food Reward and Intake

Kent C. Berridge, PhD

Is Hunger an Addiction? Evidence from Functional Brain Imaging in Humans

Alain Dagher, MD

Sensory and Affective Representation of Food in Human Brain

Dana M. Small, PhD

Imaging Studies on Obesity: Similarities and Differences to Drug Addiction

Nora D. Volkow, MD

Symposium

Aging and Calorie Restriction

Roman III

Chair: James Kirkland, MD, PhD

Theories of Aging

Steven N. Austad, PhD

Mechanistic Pathways of Calorie Restriction to Influence Aging

Richard Weindruch, PhD

Energy Deficit Issues: Reducing Food Intake vs. Increasing Energy Expenditure

Sam Klein, MD

Symposium

Ethics Symposium: Legal and Ethical Implications of Obesity

Roman IV

Chair: David B. Allison, PhD

Dissecting the Evidentiary Basis of Outcome Claims Related to Obesity

David B. Allison, PhD

Ethical Issues Related to Health Care Disparities Related to Obesity

Karen Glanz, PhD, MPH

Ethics of Treatment for Appearance vs. Health vs. Weight

Carlos M. Grilo, PhD

4:30 p.m. – 5:30 p.m.

Meet-the-Professor Student Social

Florentine IV

**Thursday, November 18, 2004**

8:00 a.m. – 9:45 a.m.

Symposium

Firing Up the Axis of Evil: Inflammation as a Factor in the Triad of Obesity/Diabetes/Cardiovascular Disease

Palace II

Chair: Sheila Collins, PhD

IK Kinase and the Inflammatory Component to Insulin

Steve E. Shoelson, MD, PhD

Defining the Molecular Mediators of Macrophage Ingress to Adipose Tissue

Stuart Weisberg, PhD Candidate

Obesity, Inflammation and the Beta-cell

Roger Unger, MD

Symposium

The Role of Stress and the CRF System in Obesity

Palace I

Chair: Ruth Harris, PhD

Stress Sensitivity in Obesity Development

Tracy L. Bale, PhD

Stress and the Regulation of Energy Balance in Obesity

Denis Richard, PhD

The Role of CRF Related Neuropeptides in Stress and Appetite

George Koob, PhD

Stress and Body Weight in Experimental Conditions

Ruth Harris, PhD

Tutorial Workshop

NIH 101: Basics and Beyond of NIH Funding

Florentine II

Susan Z. Yanovski, MD

Oral Session

Pharmacotherapy

Abstracts 108-OR to 114-OR

Florentine I

8:00 a.m. – 9:00 a.m.

Oral Session

Studies of the Built Environment

Abstracts 115-OR to 118-OR

Otho

9:00 a.m. – 9:45 a.m.

Tutorial Workshop

Geographic Information System Methodology

Otho

Chair: Monica L. Baskins, PhD

Ellen K. Cromley, PhD

10:00 a.m. – 11:00 a.m.

Oral Session

Current Themes in Human Adipose Tissue Regulation

Abstracts 119-OR to 122-OR

Palace II

Skeletal Muscle and Insulin Resistance

Abstracts 123-OR to 126-OR

Florentine I

Surgical Treatment

Abstracts 127-OR to 130-OR

Florentine II

Calcium

Abstracts 131-Or to 134-OR

Palace I

11:15 a.m. – 12:15 p.m.

Key Lecture

Gut/Brain Communication and Obesity

Supported by an unrestricted educational grant from sanofi-aventis

Palace II

Chair: David A. York, PhD

Hans-Rudolf Berthoud, PhD

11:15 a.m. – 12:45 p.m.

Symposium

Macronutrient Wars: Finding Diets that Work

Florentine II

Chair: James O. Hill, PhD

Low Glycemic Load Diets

Barry Sears, PhD

Volumetrics: The Energy Density of Food and Weight Management

Barbara J. Rolls, PhD

Low Carbohydrate Approaches

Gary D. Foster, PhD

Energy Density and Energy Balance

Richard D. Mattes, MPH, PhD, RD

### **Latin American Program**

III Spanish Symposium NAASO-FLASO

Co-chairs: Silvia Giraudó, PhD and Dr. Julio C. Montero

Palace I

11:15 a.m. – 11:35 a.m.

A Review of the Current "Hot Topic" Research on Obesity

Dr. Miguel A. Valladares, FLASO

11:35 a.m. – 11:55 a.m.

The Most Relevant Aspects on Obesity Research in Mexico

Dr. Eduardo Garcia, GTOB/SMNE

11:45 a.m. – 12:05 p.m.

Break

12:05 p.m. – 12:25 p.m.

The Most Relevant Aspects of Obesity Research in South America

Dr. Raul Pisabarro, FLASO

12:25 p.m. – 12:45 p.m.

Legal Aspects Regarding Obesity Treatment in Mexico

Dr. Sergio Godínez Gutiérrez, NAASO/Mexico

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### **NAASO 2004 Scientific Meeting: Pre-conference Session**

Sunday, November 14, 2004

2:00 p.m. to 5:00 p.m.

Florentine I/II

Development of Anti-obesity Drugs with Perspectives from Industry, Regulators and Researchers

Chair: Eric Ravussin, PhD, Pennington Biomedical Research Center, Baton Rouge, Louisiana

2:00 p.m. – 2:10 p.m.

Introduction

Eric Ravussin, PhD, Chair

2:10 p.m. – 2:35 p.m.

Anti-obesity Drug Development: From Target Identification to Launch

Jose Caro, MD, Eli Lilly Research Laboratories, Indianapolis, Indiana

2:35 p.m. – 3:00 p.m.

Pitfalls in Clinical Trial Design for Obesity Drug Approval

George Bray, MD, Pennington Biomedical Research Center, Baton Rouge, Louisiana

3:00 p.m. – 3:25 p.m.

Lessons Learned from the Development of Topiramate for Obesity

Ken Fujioka, MD, Scripps Clinic, San Diego, California

3:25 p.m. – 3:50 p.m.

The Cannabinoid System: A New Paradigm in Obesity Treatment

Douglas Greene, MD, Sanofi-Synthelabo Research, Malvern, Pennsylvania

3:50 p.m. – 4:15 p.m.

PPAR Agonists to Treat Obesity and the Metabolic Syndrome

Ken Batchelor, PhD, GlaxoSmithKline, Research Triangle Park, North Carolina

4:15 p.m. – 5:00 p.m.

Panel Discussion