



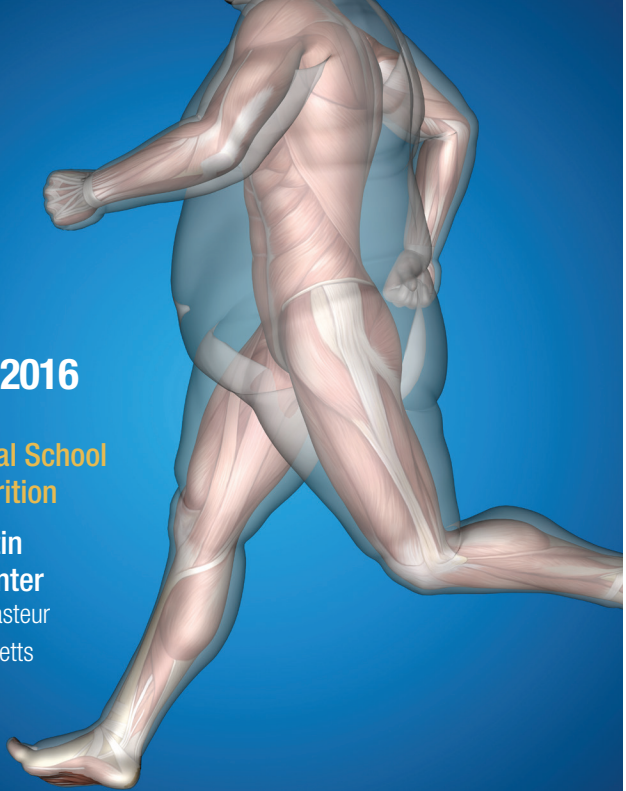
**HARVARD**  
MEDICAL SCHOOL  
DIVISION OF NUTRITION

**The 17th Annual Postgraduate  
Nutrition Symposium**

**July 13-14th, 2016**

**Harvard Medical School  
Division of Nutrition**

**Joseph B. Martin  
Conference Center**  
77 Avenue Louis Pasteur  
Boston, Massachusetts



# The Adipocyte in Energy Regulation

Presented by:



**HARVARD**  
MEDICAL SCHOOL  
DIVISION OF NUTRITION



Nutrition Obesity  
Research Center  
at Harvard



**HARVARD**  
**T.H. CHAN**  
SCHOOL OF PUBLIC HEALTH



## Wednesday, July 13th, 2016

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7:15 A.M.     **Registration and Breakfast**

8:00 A.M.     **Welcome and Introductions**

**Steven K. Grinspoon, MD**

*Director, Nutrition Obesity Research Center at Harvard  
Harvard Medical School*

8:10 A.M.     **Keynote Address:**

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**Diabetes, Obesity and the Central Role of the Adipocyte  
in Maintaining Systemic Homeostasis**

**Philipp E. Scherer, PhD**

*Gifford O. Touchstone, Jr. and Randolph G. Touchstone  
Distinguished Chair in Diabetes Research  
University of Texas Southwestern Medical Center*

### Session I:

## Molecular Regulation of Adipose Tissue

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**Moderator:**     **Lee M. Kaplan, MD, PhD**, Massachusetts General Hospital

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9:00 A.M.     **Adipose Tissue MicroRNAs Constitute a Major Fraction  
of Circulating Exosomal microRNAs and Modulate  
Hepatic mRNA Expression**

**C. Ronald Kahn, MD**

*Mark K. Iacocca Professor of Medicine  
Harvard Medical School*

9:40 A.M.     **Coffee Break**

10:10 A.M.     **Physiological Signaling by Adipose Tissue  
in Hunger and Energy Homeostasis**

**Sadaf Farooqi, PhD, FRCP**

*Professor of Metabolism and Medicine  
University of Cambridge*



- 10:50 A.M.     **Discovery of A Novel Class of Naturally-Occurring Lipids with Anti-Diabetic and Anti-inflammatory Effects**  
**Barbara B. Kahn, MD**  
*George R. Minot Professor of Medicine*  
Harvard Medical School and  
Beth Israel Deaconess Medical Center
- 11:30 A.M.     **Roundtable Discussion: Morning Participants**
- 12:00 P.M.     **Lunch Break**

### Session II:

## Adipocytes in Energy Homeostasis – Lessons from Evolutionary Biology

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**Moderator:**     **Alexander A. Soukas, MD, PhD**, Harvard Medical School

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1:00 P.M.     **Cavefish Evolution as a Natural  
Model for Metabolic Diseases**

**Nicolas Rohner, PhD**

*Assistant Professor*

Stowers Institute for Medical Research

1:40 P.M.     **Opposing Proteostasis Pathways Drive Thrifty  
Metabolism and Survival During Nutrient Deprivation**

**Alexander A. Soukas, MD, PhD**

*Assistant Professor of Medicine*

Harvard Medical School

2:20 P.M.     **Coffee Break**

2:40 P.M.     **Circadian Rhythms in Adipose Tissue**

**Jeffrey M. Gimble, MD, PhD**

*Professor of Stem Cell Biology*

Tulane University School of Medicine



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- 3:20 P.M.     **Roundtable Discussion: Afternoon Participants**
- 3:50 P.M.     **Special Lecture:**
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- The Mitochondrial Calcium Uniporter:  
A Key Integrator of Cellular Metabolism**  
Yasemin Sancak, PhD  
*Research Associate, Department of Molecular Biology  
Massachusetts General Hospital*
- 4:30 P.M.     Closing Remarks/Adjourn

## Thursday, July 14th, 2016

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- 7:15 A.M.     **Registration and Breakfast**
- 8:00 A.M.     **Welcome and Introductions**

### Session III:

## Novel Adipocyte Phenotyping

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- Moderator:**     **Gökhan S. Hotamisligil, MD, PhD**  
*Harvard School of Public Health*
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- 8:10 A.M.     **White, Brown and Beige Fat: Basic Biology  
and Novel Thermogenic Pathways**  
**Bruce M. Spiegelman, PhD**  
*Stanley J. Korsmeyer Professor of Cell Biology and Medicine  
Harvard Medical School*
- 8:50 A.M.     **Therapeutic Activators of Brown Fat**  
**Aaron M. Cypess, MD, PhD, MMSc**  
*Acting Section Chief of the Translational Physiology Section,  
Diabetes, Endocrinology, and Obesity Branch  
National Institutes of Health – National Institute of Diabetes  
and Digestive and Kidney Diseases*



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- 9:30 A.M.     **Adipose Tissue and Lipid Imaging**  
**Martin P. Torriani, MD**  
Associate Professor of Radiology  
Harvard Medical School
- 10:10 A.M.     **Coffee Break**
- 10:30 A.M.     **Insights from Lipidomics**  
**Robert E. Gerszten, MD**  
*Professor of Medicine*  
Harvard Medical School
- 11:10 A.M.     **Metaflammation, Immunometabolism  
and Metabolic Diseases**  
**Gökhan S. Hotamisligil, MD, PhD**  
*James Stevens Simmons Professor of Genetics and Metabolism*  
Harvard School of Public Health
- 11:50 A.M.     **Roundtable Discussion**
- 12:15 P.M.     **Closing Remarks/Adjourn**

### Webcast



A webcast of this symposium  
will be available soon at:  
**<http://nutrition.med.harvard.edu>**

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#### **Additional postgraduate nutrition symposia webcasts available:**

- Diet and Microbiota in Health and Disease
- Advances and Novel Targets in Energy Balance & Obesity
- Metabolic Syndrome
- Your Brain Can Help You Eat Better
- Nutrition and Global Health



## The 17th Annual Postgraduate Nutrition Symposium

### Speakers and Moderators

#### **Aaron M. Cypess, MD, PhD, MMSc**

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# The 17th Annual Postgraduate Nutrition Symposium

## Speakers and Moderators

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# Thank You!

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- Harvard T.H. Chan School of Public Health
- The Conrad Taff Teaching Fund and Taff Family
- Mead Johnson Nutrition

Join us next year for the  
2017 Postgraduate Nutrition Symposium:

*Surgical Options for Obesity:  
Physiological Mechanisms  
and Clinical Effects*