



COLUMBIA UNIVERSITY

*College of Physicians
and Surgeons*



10th Annual Conference

Frontiers in Diabetes Research

Adipocyte Biology in Obesity and Diabetes

Saturday, November 15, 2008



Course Directors

Domenico Accili, M.D., *Professor of Medicine; Director*, Columbia DERC, Naomi Berrie Diabetes Center, Columbia University College of Physicians & Surgeons, New York, New York

Robin S. Goland, M.D., *Professor of Clinical Medicine; Co-Director*, Naomi Berrie Diabetes Center, Columbia University College of Physicians & Surgeons, New York, New York

Rudolph L. Leibel, M.D., *Professor of Pediatrics and Medicine; Head*, Division of Molecular Genetics; *Co-Director*, Naomi Berrie Diabetes Center, Columbia University College of Physicians & Surgeons, New York, New York

Faculty

Timothy J. Bartness, Ph.D., *Regents' Professor*, Department of Biology, Georgia State University, Atlanta, Georgia

Dawn L. Brasaemle, Ph.D., *Associate Professor; Director*, Graduate Program in Nutritional Sciences; *Member*, Rutgers Center for Lipid Research, Department of Nutritional Sciences, Rutgers, The State University of New Jersey, New Brunswick, New Jersey

Anthony W. Ferrante, M.D., Ph.D., *Dorothy H. Silberberg Assistant Professor of Medicine*, Naomi Berrie Diabetes Center, Columbia University College of Physicians & Surgeons, New York, New York

Abhimanyu Garg, M.D., *Professor of Internal Medicine; Chief*, Division of Nutrition and Metabolic Diseases; *Endowed Chair in Human Nutrition Research*, University of Texas Southwestern Medical Center, Dallas, Texas

Michael D. Jensen, M.D., *Tyson Family Endocrinology Clinical Professor*, Endocrine Research Unit, Mayo Clinic, Rochester, Minnesota

Philipp E. Scherer, Ph.D., *Professor*, Department of Internal Medicine; *Director*, Touchstone Diabetes Center, University of Texas Southwestern Medical Center, Dallas, Texas

Kirsty Spalding, Ph.D., *Assistant Professor*, Cell and Molecular Biology, Karolinska Institute, Stockholm, Sweden

Bruce Spiegelman, Ph.D., *Professor of Cell Biology*, Dana Farber Cancer Institute Harvard Medical School, Boston, Massachusetts

Program Description & Objectives

This one-day program is designed for scientists/investigators, students and clinicians with an interest in diabetes and/or obesity. This year's meeting is focused on the developmental, cellular and molecular biology of adipose tissue and its relationship to systemic metabolism. As in the past, emphasis will be on the presentation of new and unpublished data, and on vigorous interactions between the audience and speakers.

The Naomi Berrie Diabetes Center

The Naomi Berrie Diabetes Center, combining premier family-centered patient care and education for children and adults with world-class research, opened in October 1998. The Center offers coordinated, multidisciplinary clinical care adults and children with diabetes. Educational, nutritional and psychosocial counseling help the patient and family to cope effectively with diabetes. Basic and clinical research programs at the Berrie Center focus on the biologic basis for diabetes and the prevention of diabetes and its complications. The Naomi Berrie Diabetes Center's commitment to patient care, research and education reflects its mission to improve the lives of people with diabetes and its dedication to finding a cure. For additional information, call the Center at **(212) 851-5492** or visit our web site:

www.nbdiabetes.org

Additional Information

Contact:

Center for Continuing Medical Education
Columbia University College of Physicians & Surgeons
630 West 168th Street, Unit 39
New York, NY 10032
Telephone: (212) 305-3334
Fax: (212) 781-6047
e-mail: cme@columbia.edu
<http://ColumbiaCME.org>



November 15, 2008

- 8:00 a.m. *Registration; Continental Breakfast*
- 8:45 a.m. Welcome & Introduction
Robin S. Goland, M.D. & Rudolph L. Leibel M.D.
- 9:00 a.m. Genetic Lipodystrophies: Disorders of Adipocyte Development, Differentiation and Death
Abhimanyu Garg, M.D.
- 9:30 a.m. Lipid Droplet-Associated Proteins and the Control of Triacylglycerol Metabolism
Dawn L. Brasaemle, Ph.D.
- 10:00 a.m. Panel Discussion
- 10:15 a.m. *Refreshment Break*
- 10:35 a.m. Adiponectin and Adipose Tissue Hyperplastic Responses to Overnutrition
Philipp E. Scherer, Ph.D.
- 11:05 a.m. Transcriptional Control of Energy Homeostasis
Bruce Spiegelman, Ph.D.
- 11:35 a.m. Panel Discussion
- 12:00 p.m. *Lunch*
- 1:15 p.m. Regional Fat Distribution in Humans. Relevance to Glucose and Lipid Metabolism
Michael D. Jensen, M.D.
- 1:45 p.m. Dynamics of Adipocyte Turnover in Humans:
Kirsty Spalding, Ph.D.
- 2:15 p.m. Panel Discussion
- 2:30 p.m. *Refreshment Break*
- 2:50 p.m. Bi-directional Neural Communication between Adipose Tissue and Brain
Timothy J. Bartness, Ph.D.
- 3:20 p.m. The Immunology of Adipose Tissue and Obesity
Anthony W. Ferrante, M.D., Ph.D.
- 3:50 p.m. Panel Discussion
- 4:05 p.m. General Discussion
Domenico Accili, M.D.
- 4:25 p.m. *Adjourn*

Meeting Location

Russ Berrie Medical Science Pavilion
Columbia University Medical Center
1150 St. Nicholas Avenue at West 168th Street
New York, New York 10032

Complimentary parking will be available in the Russ Berrie Pavilion parking lot located at the rear of the building.

Hotel Accommodations

A block of rooms has been reserved at the Lucerne, at the special rate of \$300 per night, plus state & local taxes. These special room rates are available to the course attendees from November 14-16, 2008. Other rates and conditions may apply. Additional information can be obtained by calling the Lucerne directly.

Reservations must be made directly with the Lucerne. To receive this room rate remember to mention that you are a registrant of the Columbia University group #283649.

Rooms will be held until September 30, 2008, or until the room block has been exhausted, whichever comes first. Reservations received after the cut-off date are subject to availability and prevailing rates.

The Lucerne
201 West 79th Street
New York, NY 10024

(800) 492-8122
(212) 875-1000

Cut-Off: September 30, 2008

Accreditation/Designation of Credit

The College of Physicians and Surgeons of Columbia University is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

The College of Physicians and Surgeons designates this educational activity for a maximum of 5.5 *AMA PRA Category 1 Credit(s)*TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The American College of Nurse Practitioners (ACNP) and the American Academy of Physician Assistants (AAPA) accept AMA/PRA category 1 credit from organizations accredited by the ACCME.

The American Nurses Credentialing Center (ANCC) accepts AMA/PRA category 1 credit toward recertification requirements.

An application for credit has been submitted to the Commission on Dietetic Registration on behalf of Registered Dietitians and Dietetic Technicians, Registered.

Disclosure

Before the program, all faculty will disclose the existence of any financial interest and/or other relationship(s) (e.g., employee, consultant, speaker's bureau, grant recipient, research support, stock ownership, or any other special relationship) they might have with a) the manufacturer(s) of any commercial product(s) to be discussed during their presentation and/or b) any commercial contributor to this activity. When unlabeled uses are discussed, these will also be indicated.

Tuition

Tuition \$150; Residents & Fellows in training (with a letter from program director certifying status): \$50; Students and Other Health Care Professionals affiliated with Columbia University (with valid I.D.): Free. The fee includes the academic presentations, continental breakfast, lunch, and refreshments. Confirmation of registration and directions to the medical center will be sent upon receipt of the registration form. Refund of registration fee, less a \$15 administrative charge, will be made if written notice of cancellation is received by **November 5, 2008**. No refunds can be made thereafter.

Registration

Space is limited. Early registration is encouraged.

By Mail:

Complete the registration form and mail with full payment to:

**Columbia University
College of Physicians & Surgeons
Center for Continuing Medical Education
630 West 168th Street, Unit 39
New York, NY 10032**

By Fax:

Registrants may fax the registration form with credit card information to:

(212) 781-6047

On-Line:

<http://columbiacme.org>

Telephone registrations and/or cancellations are not accepted.

Americans with Disabilities Act

The Columbia University College of Physicians and Surgeons fully complies with the legal requirements of the ADA and the rules and regulations thereof. Any participant with special needs must submit a written request to our office at least one month prior to the course date.

Registration Form

COLUMBIA UNIVERSITY

Diabetes

(Please print or type)

Last Name Degree

First Name Middle Initial

Address

City State Zip

Daytime Phone Daytime Fax

e-mail

Institution

PARKING I will I will not require parking.

- \$150 Physicians Medicine PM 91
- \$50 Residents & Fellows November 15, 2008
(with a letter from program director) xxxxx/5.5
- Free Students & Other Health Care Professionals
affiliated with Columbia University (with valid I.D.)

- Enclosed is a check or money order made payable to
Columbia University.
Checks must be in U.S. Dollars drawn on a U.S. bank.
Money orders must be in U.S. Dollars.

- Please charge to: MasterCard Visa

Exp. Date _____

Card Number _____

Cardholder's Name _____

Cardholder's Signature _____



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New York, New York 10032

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presented by the
Naomi Berrie Diabetes Center
Columbia University
College of Physicians & Surgeons