



COLUMBIA UNIVERSITY

*College of Physicians
and Surgeons*



the Naomi Berrie **DIABETES CENTER**
Columbia University Medical Center
the care until the cure

15th Annual Conference

Frontiers in Diabetes Research
Emerging Insights into the Pathogenesis
and Treatment of “Diabetesity”

Saturday, November 16, 2013



Course Directors

Domenico Accili, M.D., *Russell Berrie Foundation Professor of Diabetes; Professor of Medicine; Director, Diabetes and Endocrinology Research Center, Columbia University College of Physicians & Surgeons, New York, New York*

Robin S. Goland, M.D., *J. Merrill Eastman Professor of Clinical Diabetes; 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; Christopher J. Murphy Memorial Professor of Diabetes Research; Head, Division of Molecular Genetics; Co-Director, Naomi Berrie Diabetes Center, Columbia University College of Physicians & Surgeons, New York, New York*

Faculty

Louis J. Aronne, M.D., *Clinical Professor of Medicine, Weill Cornell Medical College, New York, New York*

Richard D. DiMarchi, Ph.D., *Standiford H. Cox Distinguished Professor of Chemistry; Linda and Jack Gill Chair in Biomedical Sciences, Indiana University, Bloomington, Indiana*

Peter K. Jackson, Ph.D., *Professor, Department of Microbiology and Immunology, Stanford University School of Medicine, Stanford, California*

Lee M. Kaplan, M.D., Ph.D., *Director, Obesity, Metabolism and Nutrition Institute, Harvard Medical School, Massachusetts General Hospital, Boston, Massachusetts*

Michael Rosenbaum, M.D., *Professor, Clinical Pediatrics and Clinical Medicine; Associate Director, Clinical Research Resource/CTSA, Columbia University College of Physicians & Surgeons, New York, New York*

Philipp E. Scherer, Ph.D., *Professor, Department of Internal Medicine; Gifford O. Touchstone Jr. and Randolph G. Touchstone Distinguished Chair in Diabetes Research, The University of Texas Southwestern Medical Center, Dallas, Texas*

Simeon Taylor, M.D., Ph.D., *Vice-President, Research and Scientific Affairs, Bristol-Myers Squibb, North Bethesda, Maryland*

Joshua Thaler, M.D., Ph.D., *Assistant Professor of Medicine, University of Washington, Seattle, Washington*



Saturday, November 16, 2013

- 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. Physiology of the Weight-reduced State
Michael Rosenbaum, M.D.
- 9:30 a.m. Hypothalamic Gliosis and Inflammation in the Pathogenesis of Diet-Induced Obesity
Joshua Thaler, M.D., Ph.D.
- 10:00 a.m. Panel Discussion
- 10:15 a.m. *Refreshment Break*
- 10:35 a.m. Primary Cilia in Obesity
Peter K. Jackson, Ph.D.
- 11:05 a.m. Diabetes, Obesity and the Central Role of the Adipocyte in Maintaining Systemic Homeostasis
Philipp E. Scherer, Ph.D.
- 11:35 a.m. Panel Discussion
- 12:00 p.m. *Lunch*
- 1:15 p.m. Diabetes: Lessons from Bariatric Surgery
Lee M. Kaplan, M.D., Ph.D.
- 1:45 p.m. Chemical Biotechnology Applied to Insulin in Pursuit of Enhanced Therapeutic Index
Richard D. DiMarchi, Ph.D.
- 2:15 p.m. Panel Discussion
- 2:30 p.m. *Refreshment Break*
- 2:50 p.m. Glucosuria: A Clinical Sign of Disease or a Novel Mechanism to Treat Type 2 Diabetes
Simeon Taylor, M.D., Ph.D.
- 3:20 p.m. Current Pharmacological Strategies for the Treatment of Obesity
Louis J. Aronne, M.D.
- 3:50 p.m. Panel Discussion
- 4:05 p.m. General Discussion
Domenico Accili, M.D.
- 4:25 p.m. *Adjourn*

Program Description & Objectives

This one-day program at the Naomi Berrie Diabetes Center at Columbia University is designed for research scientists, clinicians and students and with an interest in the molecular physiology of obesity, its relationship to diabetes and the implications of this physiology for intervention and prevention. As in the past, emphasis will be on the presentation of new and unpublished data and on vigorous interactions between the audience and speakers.

At the conclusion of this activity, participants will be better able to:

- Articulate the systemic and neurobiological consequences of weight reduction
- Identify the novel mechanisms by which body weight is regulated
- Apply newer medications for the treatment of obesity and diabetes
- Describe the physiological bases for the metabolic and behavioral effects of bariatric surgery

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 bases for diabetes and obesity. 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) 305-5740
e-mail: cme@columbia.edu
<http://ColumbiaCME.org>

Meeting Location

Russ Berrie Medical Science Pavilion
Columbia University Medical Center
1150 St. Nicholas Avenue
1st Floor Conference Room
New York, New York 10032

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

Accreditation Statement

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

AMA Credit Designation Statement

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

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

Please note: Your e-mail address is used for critical information about the course including: registration confirmation, course evaluation and certificate. Please be sure to include an e-mail address you check daily or frequently.

Institution

Medicine PM 91
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UR008422/5.5

- ☐ \$150 Physicians & Research Scientists
- ☐ \$90 Other Health Professionals
- ☐ \$50 Residents & Fellows in training
(with a letter from program director certifying status)
- ☐ \$50 Students
(not affiliated with Columbia University)
- ☐ Free CUMC Faculty, Students & Staff
(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.

For security purposes, credit card payments cannot be accepted by mail or fax. Please visit www.columbiacme.org to register and pay by credit card. American Express, Discover, MasterCard and Visa only.

Tuition

Physicians & Research Scientists: \$150; Other Health Professionals: \$90; Residents & Fellows in training (with a letter from program director certifying status): \$50; Students (not affiliated with Columbia University): \$50; CUMC Faculty, Students & Staff (with valid I.D.): Free. The fee includes the academic presentations, continental breakfast, lunch, and refreshments. Confirmation of registration 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 6, 2013. 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**

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.



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New York, New York 10032

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presented by the
Naomi Berrie Diabetes Center
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