



COLUMBIA UNIVERSITY

*College of Physicians  
and Surgeons*



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

*17th Annual Conference*

# ***Frontiers in Diabetes Research***

## ***Can Diabetes Be Cured?***

**Saturday, November 14, 2015**



## Course Directors

**Domenico Accili, M.D.,** *Russell Berrie Foundation Professor of Medicine (in Diabetes); 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 Diabetes (in Medicine, Pediatrics, and the Naomi Berrie Diabetes Center) at CUMC; 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

**David D'Alessio, M.D.,** *Professor, Department of Medicine; Director, Division of Endocrinology, Duke University Medical Center, Durham VAMC*

**Jane Buckner, M.D.,** *Associate Director, BRI; Program Director and Member, Translational Research Program, Benaroya Research Institute at Virginia Mason, Seattle, Washington*

**Dietrich Meinrad Egli, Ph.D.,** *Assistant Professor of Developmental Cell Biology (in Pediatrics), Columbia University College of Physicians & Surgeons, New York, New York*

**David M. Nathan, M.D.,** *Professor of Medicine, Harvard Medical School; Director, Diabetes Center and Clinical Research Center, Massachusetts General Hospital, Boston, Massachusetts*

**Steven Jon Russell, M.D., Ph.D.,** *Assistant Professor of Medicine, Harvard Medical School, Massachusetts General Hospital Diabetes Research Center, Boston, Massachusetts*

**Ben Z. Stanger, M.D., Ph.D.,** *Associate Professor of Medicine, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania*

**Sophie Stecutorum,** *Max Planck Institute for Metabolism Research, Köln, Germany*

**Andrew Stewart, M.D.,** *Irene and Dr. Arthur M. Fishberg Professor of Medicine; Director, Diabetes, Obesity and Metabolism Institute, Icahn School of Medicine at Mount Sinai, New York, New York*



**Saturday, November 14, 2015**

- 8:00 a.m. *Registration; Continental Breakfast*
- 8:45 a.m. Welcome and Introduction  
**Robin S. Goland, M.D. & Rudolph L. Leibel, M.D.**
- 9:00 a.m. The Results and Costs of Current-day Diabetes Therapy: Do We Need a Cure?  
**David M. Nathan, M.D.**
- 9:30 a.m. Chronology of Failed Tolerance in T1D  
**Jane Buckner, M.D.**
- 10:00 a.m. Panel Discussion
- 10:15 a.m. *Refreshment Break*
- 10:35 a.m. Automating Glycemic Regulation in T1D with a Bionic Pancreas  
**Steven Jon Russell, M.D., Ph.D.**
- 11:05 a.m. Proglucagon Peptides in Metabolic Regulation  
**David D'Alessio, M.D.**
- 11:35 a.m. Panel Discussion
- 12:00 p.m. *Lunch*
- 1:15 p.m. Hypothalamic Control of Energy and Glucose Homeostasis  
**Sophie Steculorum**
- 1:45 p.m. Advances in, and Obstacles to, Human Beta Cell Regeneration for Diabetes  
**Andrew Stewart, M.D.**
- 2:15 p.m. Panel Discussion
- 2:30 p.m. *Refreshment Break*
- 2:50 p.m. Monogenetic Forms of Diabetes: An Entry Point for Research and Therapy  
**Dietrich Meinrad Egli, Ph.D.**
- 3:20 p.m. Making New Beta Cells from Intestinal Epithelial Cells  
**Ben Z. Stanger, 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*

## Program Description & Objectives

This one-day program at the Naomi Berrie Diabetes Center at Columbia University is designed for research scientists, clinicians and students with an interest in the latest insights with regard to the genetics of diabetes and obesity and the molecular physiology of the causes and consequences of these disorders.

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

- Indicate the plausibility of eliminating some forms of diabetes.
- Articulate some of the approaches by which these ends might be reached.
- Understand the molecular pathogenesis of disturbed glucose homeostasis in diabetes.

## 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](http://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](mailto: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 Herbert Irving Comprehensive Cancer Center parking lot located at 1130 St. Nicholas Avenue (167th Street between Audubon Avenue and St. Nicholas Avenue).

## 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.

## 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 4, 2015. 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.

# 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  
November 14, 2015  
UR007754/5.5

- ☐ \$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](http://www.columbiacme.org) to register and pay by credit card. American Express, Discover, MasterCard and Visa only.



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# *Frontiers in Diabetes Research*

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*presented by the*  
Naomi Berrie Diabetes Center  
Columbia University  
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