



**Adipocytes Futile Cycling and Metabolism; The Next Frontier in  
Weight Management Therapies  
May 6, 2026**

*Presented by:*

The New York Academy of Sciences Biochemical Pharmacology Discussion Group  
115 Broadway, 8<sup>th</sup> Floor, New York, NY

**8:30 AM** Check in and Breakfast

**9:00 AM** Welcome Remarks  
**Megan Prescott, PhD**, The New York Academy of Sciences

**SESSION I: ADIPOSE FUTILE CYCLING**

**9:15 AM** Physiological Roles of Brown and Beige Fat.  
**Paul Cohen, MD, PhD**, The Rockefeller University

**9:45 AM** Identification of a Molecular Resistor that Controls UCP1-Independent Ca<sup>2+</sup>  
Cycling Thermogenesis in Adipose Tissue  
**Shingo Kajimura, PhD**, Beth Israel Deaconess Medical Center

**10:15 AM** Defining the Activation Mechanism of UCP1-Independent Thermogenesis Through  
the Futile Creatine Cycle and Its Integration as a Parallel Pathway  
**Lawrence Kazak, PhD**, McGill University

**10:45 AM** Networking Break

**SESSION II: ADIPOSE FUTILE CYCLES (CONTINUED)**

**11:20 AM** Measurement of Triglyceride Cycling Rates and Energy Consumption by Mass  
Spectrometric Tracing of Fatty Acid Turnover  
**Christoph Thiele, PhD**, University of Bonn

**11:50 AM** Coordinate Control of Adipose 'Browning' And Energy Expenditure by Beta-  
Adrenergic and Natriuretic Peptide Signaling  
**Sheila Collins, PhD**, Vanderbilt University

**12:20 PM** Networking Lunch and Poster Session

**SESSION III: SHORT TALKS FROM SUBMITTED ABSTRACTS**

**1:45 PM** PEPCK Regulates Adipose Tissue Energy Balance and Lipid Homeostasis

**Yutong Bao**, University of Wisconsin, Madison

**1:55 PM**      **In Vivo Mosaic Adipose Screening to Identify Novel Targets For Achieving Weight Loss in Combination with GLP-1R Agonists**  
**Joanne, Hsieh, PhD**, Gordian Biotechnology

**2:05 PM**      **Activin E Neutralization Drives Healthy Fat Loss**  
**Tam, Phuong PhD**, iBio Inc.

**2:15 PM**      **Networking Break**

**SESSION IV: ADIPOSE METABOLISM AND LIPID CYCLING**

**2:50 PM**      **Adipose Browning and Cancer Cachexia**  
**Christine Chio PhD**, Columbia University

**3:20 PM**      **GIP Enhances Uptake and Metabolism of Fatty Acids in Brown Adipose Tissue**  
**Jacqueline Beaudry, PhD**, University of Toronto

**3:45 PM**      **Quantifying Systemic Triacylglycerol-Fatty Acid Cycle**  
**Tony Hui, PhD**, Harvard University

**4:20 PM**      **Mechanisms of GIP Induced Weight Loss**  
**Ricardo Samms, PhD**, Lilly

**4:50 PM**      **Closing Remarks**  
**Megan Prescott, PhD**, The New York Academy of Sciences