

Lipodystrophy and the Metabolic Consequences of Altered Fat Deposition Workshop

November 2-3, 2006
NIH, Lister Hill Auditorium, Bethesda, MD

DAY 1: Thursday, November 2, 2006

7:30 - 8:15 a.m. **Registration and Continental Breakfast**

8:15 - 8:30 a.m. **Opening Remarks/Meeting Overview**

Overview of Clinical Syndromes

8:30 - 9:15 a.m. **Overview of Clinical Syndromes of Lipodystrophies**
Abhimanyu Garg, M.D., University of Texas Southwestern Medical Center

Session 1: Genetic Etiologies of Lipodystrophies

Moderator: Abhimanyu Garg, M.D.

9:15 - 9:45 a.m. **Genetic Basis of Lipodystrophy and Obesity**
Stephen O'Rahilly, M.D., F.R.S., Cambridge University

9:45 - 10:15 a.m. **1-Acylglycerol-3-phosphate-O-Acyl Transferase: An Update**
Anil K. Agarwal, M.D., University of Texas Southwestern Medical Center

10:15 - 10:45 a.m. **Break**

10:45 - 11:15 a.m. **The Role of Lamin A/C in Familial Partial Lipodystrophy**
Howard Worman, M.D., Columbia University

11:15 - 11:45 a.m. **Pathogenesis of NASH**
Anna Mae Diehl, M.D., Duke University Medical Center

11:45 a.m. - 12:15 p.m. **Hot Topic:**
Genetic Etiologies of Berardinelli-Seip Congenital Lipodystrophy
Joycelyne Magre, Ph.D., Pierre and Marie Curie University – Site, Saint-Antoine

12:15 - 2:00 p.m. **Lunch and Poster Session**

Session II: Animal Models With Altered Fat Deposition

Moderator: Karen Reue, Ph.D.

- 2:00 - 2:30 p.m. **Lipin and Adiposity**
Karen Reue, Ph.D., University of California, Los Angeles
- 2:30 - 3:00 p.m. **FAT-ATTAC Mice: A Model of Inducible Lipoatrophy**
Philipp Scherer, Ph.D., Albert Einstein College of Medicine
- 3:00 - 3:30 p.m. **Agnat2 Mouse Model**
Jay Horton, M.D., University of Texas Southwestern Medical Center
- 3:30 - 4:00 p.m. **Break**
- 4:00 - 4:30 p.m. **AMPK α 2, Pref-1, and APAT Mouse Models**
Hei Sook Sul, Ph.D., University of California at Berkeley
- 4:30 - 5:00 p.m. **Role of MT1-MMP in 3D Development of WAT**
Stephen J. Weiss, Ph.D., University of Michigan
- 5:00 - 5:30 p.m. **Hot Topic:**
Adipositis in the aP2-nSREBP-1c Mouse Model of Lipodystrophy
Laura Herrero, Ph.D., and Ali Nayer, M.D., Joslin Diabetes Center, Harvard Medical School, Boston
- 5:30 p.m. **Adjourn**

DAY 2: Friday, November 3, 2006

- 7:30 - 8:30 a.m. **Registration and Continental Breakfast**

Session III: Clinical Investigations

Moderator: Phillip Gorden

- 8:30 - 9:00 a.m. **Adipose Tissue as an Endocrine Organ: The Role of Leptin Therapy in the Treatment of Lipodystrophy**
Phillip Gorden, M.D., National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health
- 9:00 - 9:30 a.m. **Metabolic Alterations in HIV-Lipodystrophy: Clinical Consequences and Potential Treatment Strategies**
Steven Grinspoon, M.D., Massachusetts General Hospital
- 9:30 - 10:00 a.m. **Pathophysiology of Lamin and HIV-Related Lipodystrophies: Common Mechanisms**
Jacqueline Capeau, M.D., Ph.D., Faculté de Médecine, Université Pierre et Marie Curie
- 10:00 - 10:30 a.m. **Break**

Session IV: The Life Cycle of the Adipocyte

Moderator: Bruce Spiegelman

- 10:30 - 11:00 a.m. **Role of PGC1 α in Regulation of Metabolism**
Bruce Spiegelman, Ph.D., Dana-Farber Cancer Institute/Harvard Medical Center
- 11:00 - 11:30 a.m. **Adipocyte Apoptosis and Regulation of Fat Cell Mass**
Clifton Baile, Ph.D., University of Georgia
- 11:30 a.m. - 12:00 noon ***C. elegans* Fat Regulatory Networks**
Kaveh Ashrafi, Ph.D., University of California, San Francisco
- 12:00 noon - 1:15 p.m. **Lunch (on your own)**
- 1:15 - 1:45 p.m. **Sympathetic and Sensory Nerve Regulation of Adipose Tissue Growth**
Timothy Jon Bartness, Ph.D., Georgia State University
- 1:45 - 2:15 p.m. **The β -Catenin Antagonist Chibby Promotes Adipocyte Differentiation**
Ken-Ichi Takemaru, Ph.D., State University of New York at Stony Brook
- 2:15 - 2:45 p.m. **Elongation Factor 1A-1 in Lipotoxic Cell Death**
Jean Schaffer, M.D., Washington University School of Medicine
- 2:45 - 3:15 p.m. **Hot Topic:**
PPAR γ ^{ldi}: A Novel Mouse Model of Conditional Lipodystrophy
Yaacov Barak, Ph.D., The Jackson Laboratory
- 3:15 - 3:30 p.m. **Closing Remarks**
- 3:30 p.m. **Adjourn**