



2008 MID-ATLANTIC DIABETES RESEARCH SYMPOSIUM

OCTOBER 3, 2008

LISTER HILL AUDITORIUM • BUILDING 38A
NATIONAL INSTITUTES OF HEALTH
BETHESDA, MD



NIDDK NATIONAL INSTITUTE OF
DIABETES AND DIGESTIVE
AND KIDNEY DISEASES

AGENDA

Session 1A: Plenary Talks

Chair: Sam Cushman, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

- 8:30 a.m. – 9:10 a.m. My Favorite Research Surprises—The 2008 Survey
Jesse Roth, Albert Einstein College of Medicine
- 9:10 a.m. – 9:50 a.m. Insights into the Pathophysiology of Type 2 Diabetes and New Directions for
Treatment
David Kelley, Merck & Co., Inc.

Session 1B: Diabetes Research Resources

- 9:50 a.m. – 10:10 a.m. NIDDK Obesity and Diabetes Research Resources
Carol Haft, National Institutes of Health (NIH)
- 10:10 a.m. – 10:30 a.m. The National Human Tissue Center Providing Donated Human Organs, Tissues, and
Derivatives for Research
Lee Ducat, National Disease Research Interchange
- 10:30 a.m. – 11:00 a.m. *Break*

Session 2A: Scientific Solicitations of Collaboration Short Talks (10 minute talk, 5 minute Q&A)

Chair: Jesse Roth, Albert Einstein College of Medicine

- 11:00 a.m. – 11:15 a.m. Human Vascular Tissue Microarrays to Investigate Diabetic Vascular Disease
Marc Halushka, Johns Hopkins University School of Medicine
- 11:15 a.m. – 11:30 a.m. Changes of Visceral Fat Are Allometrically Related to Total Body Fat Independently
of Gender or Weight Loss Intervention
Kevin Hall, NIDDK

Session 2B: Basic Science Short Talks (10 minute talk, 5 minute Q&A)

- 11:30 a.m. – 11:45 a.m. COPI Complex Is a Novel Regulator of Lipid Homeostasis
Carole Sztalryd, VAH and University of Maryland School of Medicine

- 11:45 a.m. – 12:00 p.m. Effects of O-GlcNAcase on Insulin Signaling in Adipocytes and MEFs
Chithra Keembiyehetty, NIDDK
- 12:00 p.m. – 12:15 p.m. Closer Insight into Pancreatic Endocrine Cell Gene Expression Profiles and Evidence for Facultative β Cell Neogenesis in Adult Mice Using Quantitative Nuclease Protection Array (qNPA) Technology on FACS Purified Mouse Endocrine Cell Subsets
Klaus Pechhold, NIDDK
- 12:15 p.m. – 12:30 p.m. Specialized Astrocytes and Glucose-Sensing by the Hypothalamus
John Young, Howard University College of Medicine
- 12:30 p.m. – 2:30 p.m. *Lunch, Posters, and Job Fair*

Session 3: Type 1 Diabetes-Plenary and Short Talks (10 minute talk, 5 minute Q&A)
Chair: Oksana Gavrilova, NIDDK

- 2:30 p.m. – 3:00 p.m. Tapping into the Limited Regeneration Potential of a Pancreatic Beta Cell
Sushil Rane, NIDDK
- 3:00 p.m. – 3:15 p.m. Genistein Prevents Diabetes: Cellular and Molecular Mechanisms
Dongmin Liu, Virginia Tech University
- 3:15 p.m. – 3:30 p.m. Follow-up Analysis of Genome-wide Association Data and Replication Identifies Novel Loci for Type 1 Diabetes
Struan Grant, Children's Hospital of Philadelphia
- 3:30 p.m. – 3:45 p.m. *Break*

Session 4: Type 2 Diabetes Short Talks (10 minute talk, 5 minute Q&A)
Chair: Vincent Manganiello, National Heart, Lung, and Blood Institute

- 3:45 p.m. – 4:00 p.m. D-Chiro-Inositol and Putative Mediator Lack and Insulin Resistance: A Myo-Inositol to Chiro-Inositol Imbalance: A Defective 3H Myo-Inositol to 3H Chiro-Inositol Conversion and Myo-Inositol to Chiro-Inositol Epimerase Enzyme Activity in GK Type 2 Diabetic Rats
Joseph Larner, University of Virginia
- 4:00 p.m. – 4:15 p.m. Revisiting the Functions and Mechanisms of Omega-3 Polyunsaturated Fatty Acids in Preventing Obesity and Type 2 Diabetes
Allan Zhao, University of Pittsburgh
- 4:15 p.m. – 4:30 p.m. Hypothesis: An Ectopic Synthesis of the Melanin in Adipose May Help to Counteract Metabolic Syndrome
Ancha Baranova, George Mason University
- 4:30 p.m. *Adjournment*