



# Discovery Strategies Conference: Modeling Human Metabolic Syndrome and Type 2 Diabetes in Rodents

*August 5-7, 2007*

## Tentative Conference Agenda

*Talk Times/Titles subject to change*

For more information, please contact [erin.mcdevitt@jax.org](mailto:erin.mcdevitt@jax.org)

*All lectures to be held at The Jackson Laboratory's CC Little Auditorium unless otherwise noted.*

### Sunday, August 5<sup>th</sup>

#### PM

- 6:00 - 7:00     **Registration**
- 7:00 - 8:00     **Mixer/ Poster Set Up**
- 8:00 – 9:00     **Metabolic Syndrome and Insulin resistance: Progress toward developing high-throughput screening assays for botanical compounds**  
*William Cefalu, Pennington Biomedical Research Center*

Last Revision:  
July 23, 2007

## **Monday, August 6<sup>th</sup>**

*Morning Session I - Metabolic Syndrome and Mice - Alan Attie, Chair*

### **AM**

- 8:00 –8:30 **Welcome to The Jackson Laboratory**  
*Ed Leiter and Rick Woychik, The Jackson Laboratory*
- 8:30 - 9:00 **Genetic & Genomic Approaches to Diabetes Gene Discovery in Mice**  
*Alan Attie, University of Wisconsin, Madison*
- 9:00 – 9:30 **Finding the right mouse for studying the metabolic syndrome**  
*Karen Svenson., The Jackson Laboratory*
- 9:30 - 10:00 **Inbred strain variations in glucose tolerance and resistance to metabolic stress**  
*Clay Mathews, Rangos Research Center, University of Pittsburgh*
- 10:00 - 10:30 **Coffee Break, CC Little Lobby**

*Morning Session II - Genomic Manipulations for Discovery - Yaki Barak, Chair*

- 10:30 – 11:00 **Genetics and Systems Biology of Metabolic Disease in Chromosome Substitution Strains**  
*Joseph Nadeau, Case Western Reserve University*

### **PM**

- 11:00 - 11:30 **Elucidating Gene Networks Associated with Complex Disease States: Moving Beyond Human Genome-wide Association Studies**  
*Eric Schadt, Merck/Rosetta*
- 11:30 – 12:00 **Molecular Genetics of PPARgamma**  
*Yaacov Barak, The Jackson Laboratory*
- 12:00 – 12:30 **Discussion**
- 12:30 - 2:00 **Lunch, Roscoe's**

*Afternoon Session - Genetic Manipulations II - Cliff Rosen, Chair*

- 2:00 – 2:30 **Mouse models for studying T2D pathophysiology**  
*Derek LeRoith, National Institutes of Health*

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- 2:30 - 3:00    **“Humanizing” the mouse**  
*Leonard Shultz, The Jackson Laboratory*
- 3:00 - 3:30    **Coffee Break, CC Little Lobby**
- 3:30 - 4:00    **Non-genetic variation in diet-induced obesity in C57BL/6J mice**  
*Leslie Kozak, Pennington Biomedical Research Foundation*
- 4:00 – 4:30    **Discussion**
- 4:30 – 6:00    **Poster Talks**

## **Tuesday, August 7<sup>th</sup>**

*Morning Session - New Mouse Models - Ed Leiter, Chair*

### **AM**

- 8:00 – 8:30    **Overview of JAX Models**  
*Edward Leiter, The Jackson Laboratory*
- 8:30 – 9:00    **The melanocortin-3 receptor null mouse – A model of obesity in the absence of metabolic syndrome**  
*Kate Ellacott, Oregon Health & Science University*
- 9:00 – 9:30    **Evaluating NONcNZO10, a new polygenic model of T2D**  
*Cai Li, Merck Research Laboratories*
- 9:30 – 10:00   **NONcNZO10/LtJ Mice; A Better Model of Translational Pharmacology for Type 2 Diabetes?**  
*Michael Gibbs, PGRD, Groton Laboratories*
- 10:00 – 10:30 **Coffee Break, CC Little Auditorium**
- 10:30 - 11:00   **TallyHo mice**  
*Juergen Naggert, The Jackson Laboratory*
- 11:00-11:30    **Modeling Alström’s Syndrome in ALMS1 mice**  
*Gayle Collin, The Jackson Laboratory*
- 11:30 – 12:00   **Identification of adipogenic and diabetogenic gene variants in the New Zealand Obese Mouse model**  
*Hans-Georg Joost, German Institute of Human Nutrition*

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**PM**

12:00 – 12:30 **Predicting diabetic kidney disease in mouse models**  
*Matthew Breyer, Eli Lilly and Company*

12:30 – 1:00 **Discussion**

1:00 - 2:00 **Lunch, Roscoe's**

*Afternoon Session - Rat Models - Howard Jacob, Chair*

2:00 – 2:30 **Using rat models to understand T2D pathophysiology**  
*Howard Jacob, Medical College of Wisconsin*

2:30 – 3:00 **A rat model for the metabolic syndrome and longevity**  
*Charles Burant, University of Michigan*

3:00 – 3:30 **The impact of environmental factors on physiology and pharmacological responsiveness of the Goto-Kakizaki rat - implication for study designs**  
*Carina Ammala, GlaxoSmithKline*

4:00 – 6:30 **Harbor Cruise**, Departs from Bar Harbor Regency

6:30 **Lobster Dinner**, Pool House at Bar Harbor Club

9:00 Water Taxi from Pool House to Bar Harbor Regency