

**Kern Lipid Conference**  
**2012 Program Agenda**  
***Systems Biology, Lipidomics and Cardiometabolic Diseases***  
**July 12 – 15, 2012, Vail, CO**

*All scientific sessions will be held in the Vail Cascade Conference Center, 2<sup>nd</sup> Floor, Centennial Ballroom D*

Conference Co-Chairs:  
Jake Lusis, Ph.D., Roger Newton, Ph.D., Margrit Schwarz, Ph.D.

Thursday July 12, 2012, 1:30 pm - 7:30 pm

12:45-1:30 PM **Conference Check-In**  
*Conference Center, 2<sup>nd</sup> Floor, Centennial Foyer*

**Session I: Global Analyses of Lipids**  
*Session Chairs: Dawn Brasaemle, Ph.D. and Joachim Herz, M.D.*

1:30 PM **Introduction and Comments**  
Robert H. Eckel, M.D., President, Kern Lipid Conference  
University of Colorado Denver, Anschutz Medical Campus, Aurora, Colorado

1:35 PM **“Metabolite profiles and the risk of diabetes”**  
Robert E. Gerszten, M.D., Massachusetts General Hospital, Boston, MA

2:25 PM **“Metabolomics studies and discovery of pathways in atherosclerosis”**  
Stanley Hazen, M.D., Ph.D. Cleveland Clinic, Cleveland, OH

3:15 PM **“Metabolic markers of insulin resistance predict progression of IGT and T2D”**  
Walter Gall, Ph.D., Metabolon, Inc., Durham, NC

4:05 PM **Break**  
*Conference Center, 2<sup>nd</sup> Floor, Centennial Ballroom, Rooms A-C*

4:20 PM **“Systems biology of the macrophage lipidome”**  
Shankar Subramaniam, Ph.D., University of California San Diego, San Diego, CA

5:10 pm **“Proteome Dynamics: Measuring the Kinetics of Complex Networks in Cardiometabolic Disease”**  
Marc Hellerstein, M.D., Ph.D., University of California, Berkeley, CA

6:00 PM **Roger Davis Lecture**  
*Amnon Schlegel, M.D., Ph.D., University of Utah, Salt Lake City, UT*

6:40 PM **Poster Session & Reception**  
*Rocky Mountain Garden, north tent*

7:30 PM **Session Adjourns**

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*Friday July 13, 2012, 7:30 AM - 10:00 PM*

**Session II: Systems biology and genetics for analysis of complex traits**

*Session Chairs: Mary Sorci-Thomas, Ph.D. and Roger Newton, Ph.D.*

- 7:30 AM      **Breakfast Buffet**  
*Conference Center, 2<sup>nd</sup> Floor, Centennial Ballroom, Rooms A-C*
- 8:25 AM      **Introduction of the Journal of Lipid Research Lectureship**  
Ira J. Goldberg, M.D., Columbia University, New York, New York
- 8:30 am      **Journal of Lipid Research Lecture: “Hypertriglyceridemia: A complex genetic trait”**  
Robert Hegele, M.D., Robarts Research Institute, University of Western Ontario, Ontario, Canada
- 9:20 AM      **“Systems genetic dissection of cardiac remodeling”**  
Stuart Cook, Ph.D., Imperial College, London, England
- 10:10 AM     **Break**  
*Conference Center, 2<sup>nd</sup> Floor, Centennial Ballroom, Rooms A-C*
- 10:30 AM     **“microRNAs in glucose and lipid metabolism”**  
Markus Stoffel, M.D., ETH Zurich, Zurich, Switzerland
- 11:25 AM     **“Fractal genetics and systems biology of diet-induced metabolic disease”**  
Joseph H. Nadeau, Ph.D., Institute for Systems Biology, Seattle, WA
- 12:15 PM     **Lunch & Small Group Discussions**  
*Rocky Mountain Garden, Tents*
- 1:30 PM      **Poster Session**  
*Rocky Mountain Garden, north tent*
- 3:30 PM      Afternoon Session Adjourns
- Session II (Evening):**
- 6:00 PM      **Introduction and Presentation of the Kern Lectureship Award**  
Robert H. Eckel, M.D., University of Colorado Denver Anschutz Medical Campus, Aurora, Colorado
- Kern Lecture: “Systems Medicine, Emerging Technologies, and Proactive P4 Medicine (Predictive, Preventive, Personalized, and Participatory)”**  
Leroy Hood, M.D, Ph.D. Institute for Systems Biology, Seattle, WA
- 7:00 PM      **Reception & Dinner - *Creekside Room & Deck, Vail Cascade Main Lodge***
- 10:00 PM     Evening Session Adjourns

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*Saturday July 14, 2012, 7:30 AM - 6:30 PM*

**Session III: Epigenetics, complex interactions and lipids**

*Session Chairs: Sudha Biddinger, M.D., Ph.D. and Russell DeBose-Boyd, Ph.D.*

- 7:30 AM      **Breakfast Buffet**  
*Conference Center, 2<sup>nd</sup> Floor, Centennial Ballroom, Rooms A-C*
- 8:30 AM      **“Using single-cell imaging and Selective Reaction Monitoring (SRM) mass spectrometry to unmask the feedback loops controlling adipogenesis”**  
Mary Teruel, Ph.D., Stanford University, Stanford, CA
- 9:20 AM      **“Genomic variation from the ground up: mechanisms underlying macrophage-specific transcriptional responses to metabolic and inflammatory signaling”**  
Sven W. Heinz, Ph.D., University of California San Diego, San Diego, CA
- 10:10 AM     **Break**  
*Conference Center, 2<sup>nd</sup> Floor, Centennial Ballroom, Rooms A-C*
- 10:30 AM     **“Nutrigenomics, Signal Transduction and Lipid Metabolism”**  
Jeffrey Bland, Ph.D., Metagenics Inc., San Clemente, CA
- 11:25 AM     **“The X Files: The role of sex chromosomes in metabolic disease”**  
Karen Reue, Ph.D. University of California Los Angeles, Los Angeles, CA
- 12:15 PM     **Lunch & Small Group Discussions**  
Rocky Mountain Garden, Tents
- 2:00 PM      **Poster Session**  
*Rocky Mountain Garden, north tent*

**Session IV Genetic dissection of cardiometabolic disease**

*Session Chair: Jake Lusis, Ph.D.*

- 4:00 PM      **“Common, rare, and regulatory variants associated with lipids and metabolic traits”**  
Karen Mohlke, Ph.D., University of North Carolina School of Medicine, Chapel Hill, NC
- 4:50 PM      **“The Joy of Genes: Genetic dissection of type 2 diabetes”**  
Alan D. Attie, Ph.D., Univ of Wisconsin, Madison, WI
- 5:40 PM      **Introduction and Presentation of the David L. Williams Lectureship Award**  
Mary Sorci-Thomas, Ph.D., Wake Forest Baptist Medical Center, Winston-Salem, NC
- 5:50 PM      **David L Williams Lecture**  
J. Mark Brown, Ph.D., Wake Forest University, School of Medicine
- 6:30PM      Session Adjourns

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*Sunday July 15, 2012, 7:00 AM - 12:30 PM*

**Session V: Pharmacogenomics and metabolic/cardiovascular diseases**

*Session Chairs: Margrit Schwarz, Ph.D. and Bob Eckel, M.D.*

- 7:00 AM      **Breakfast Buffet**  
*Conference Center, 2<sup>nd</sup> Floor, Centennial Ballroom, Rooms A-C*
- 8:15 AM      **“Alternative Splicing in Regulation of Cholesterol Homeostasis”**  
Marisa Wong Medina, Ph.D., Children’s Hospital Oakland Research Institute
- 8:45 AM      **“Predicting Diabetes: The utility of lipid metabolites and protein markers in monitoring the progression to disease”**  
Steven Watkins, Ph.D., Tethys Biosciences, Emeryville, CA
- 9:15 AM      **“Lipidomics in cardiovascular research and drug development”**  
Reijo Laaksonen, M.D., Ph.D., Zora Biosciences, Espoo, Finland
- 9:45 AM      **“Hypercholesterolemia-induced oxidant stress accelerates hematopoietic stem cell aging and impairs immunosurveillance against colorectal neoplasia in mice”**  
Louis M. Messina, M.D., University of Massachusetts Medical School, Worcester, MA
- 10:30 AM     **Break**  
*Conference Center, 2<sup>nd</sup> Floor, Centennial Ballroom, Rooms A-C*
- 10:45 AM     **“Organizing Big Biological Data Using Predictive Network Modeling Approaches”**  
Eric Schadt, Ph.D., Institute for Genomics and Multiscale Biology, Mount Sinai Medical Center, New York, NY
- 11:30 AM     **“ApoAI as a novel modulator of glucose homeostasis and mitochondrial function”**  
Susanna Hofmann, M.D., Helmholtz Centre Munich, Neuherberg, Germany
- 12:15 PM     Closing Remarks
- 12:30 PM     Conference Adjourns