

2011 SOUTH EAST LIPID RESEARCH CONFERENCE

October 6-8, 2011

PROGRAM SCHEDULE

WEDNESDAY, October 5

7:00-8:00 PM ARRIVAL AND EARLY REGISTRATION

THURSDAY, October 6

7:00-7:50 AM REGISTRATION AND CONTINENTAL BREAKFAST

7:50-8:00 WELCOME
Norbert Leitinger, PhD, Program Chairman, University of Virginia

SESSION 1: NUTRITION AND METABOLIC SYNDROME

Session Chair: John Parks, PhD, Wake Forest University School of Medicine School of Medicine

8:00-8:25 *Alterations in Monocyte Subsets and Monocyte Trafficking by Omega-3 Fatty Acids*
Amanda Brown, PhD, Wake Forest University School of Medicine School of Medicine

8:25-8:50 *Regulation of Histone Deacetylase Expression by Fatty Acids*
Ji-Young Lee, PhD, University of Connecticut

8:50-9:15 *Dietary Regulation of Adipose Tissue Inflammation & Insulin Resistance*
Naima Moustaid-Moussa, PhD, University of Tennessee

9:15-9:40 *Very Low Density Lipoprotein Receptor & Obesity-related Metabolic abnormalities: Another Molecular Determinant of Insulin Resistance & Inflammation*
Tahar Hajri, PhD, Vanderbilt University School of Medicine

9:40-10:15 BREAK

SESSION 2: CIRCADIAN REGULATION OF CARDIOMETABOLIC PARAMETERS

Session Chair: Martin E. Young, PhD, UAB

10:15-10:40 *Circadian Clocks in the Vascular System*
R. Daniel Rudic, PhD, Georgia Health Sciences University

10:40-11:05 *Clocks and Lipoprotein Metabolism*
Mahmood Hussain, PhD, SUNY Downstate Medical Center

11:05-11:30 *Clocks and Adipose Function*
Molly Bray, PhD, University of Alabama, Birmingham

11:30-11:55 *Cardiometabolic Disease: The Potential Role of the Molecular Clock in Skeletal Muscle Dysfunction*
Elizabeth Schroder, PhD, University of Kentucky

11:55-12:20 *Clocks and Myocardial Metabolism*
Martin Young, University of Alabama, Birmingham

12:20-3:30 PM LUNCH ON YOUR OWN – FREE TIME

3:30 – 5:00 **EDUCATIONAL SESSION: Graduate School to Post-Doc to “What Comes Next?”** –
Moderator: Alyssa Hasty, PhD, Vanderbilt University
Panelists: Drs. Bruce Freeman, Ira Shulman, Lisa Cassis, John Parks, and Jay Wrobel

- Informal panel discussion with representatives from academia and industry highlighting career choices and the pro’s and con’s of each.

5:00-7:30 **POSTER SESSION AND RECEPTION**

8:00-8:15 **History of the SELRC: 20th Anniversary Special**
Dr. Virgil Brown, MD, Emory

8:15-9:15 **W. VIRGIL BROWN KEYNOTE LECTURE**

“Electrophilic Fatty Acid Signaling Mediators – New Hammers in the Redox Toolbox”

Bruce Freeman, PhD, Professor and Chair
Dept of Pharmacology and Chemical Biology
University of Pittsburgh School of Medicine

9:15 PM ADJOURN FOR THE DAY

FRIDAY, October 7

7:00 – 8:00 AM CONTINENTAL BREAKFAST

SESSION 3: CHEMOKINES IN ATHEROSCLEROSIS AND DIABETES

Session Chair: Victoria King, PhD, University of Kentucky

- 8:00-8:20 *The Role of Polychlorinated Biphenyls in the Development of Diabetes*
Nicki Baker, PhD, University of Kentucky
- 8:20-8:45 *STAT4 Deficiency Reduces Chemokine Production & Inflammation in Adipose Tissue*
Anca Dana Dobrian, PhD, Eastern Virginia Medical School
- 8:45-9:10 *CCR7 Deficiency Attenuates Adipose Tissue Macrophage Accumulation in Obesity*
Jeb Orr, PhD, Vanderbilt University School of Medicine
- 9:10-9:35 *Epicardial Fat Biomarkers from the West Virginia Appalachia Heart Study*
Nalini Santanamm, PhD, Marshall University
- 9:35-10:00 *Role of the Adipocyte Renin-angiotensin System in Metabolic Syndrome*
Lisa Cassis, PhD, University of Kentucky

10:00 – 10:30 BREAK

SESSION 4: INFLAMMATION AND ENERGY METABOLISM

Session Chair: Dennis Bruemmer, PhD, University of Kentucky

- 10:30-10:50 *Sequestosome 1 Controls Energy Expenditure*
Timo Mueller, PhD, University of Cincinnati
- 10:50-11:10 *Telomeres in Metabolism and Inflammation*
Dennis Bruemmer, MD, PhD, University of Kentucky
- 11:10-11:30 *Establishment of primary human brown adipocyte cultures from adipogenic stem cells*
Soonkyu Chung, PhD, University of Florida
- 11:30-11:50 *Mi-2b and lipin mediate adipogenesis and inflammatory gene transcription*
Marissa Smith, PhD, University of Virginia

11:50-12:10 Questions & Answers

12:10 – 5:00 LUNCH ON YOUR OWN and FREE TIME

SESSION 5: REGULATION OF METABOLISM BY NUCLEAR RECEPTORS: FLIES, MICE AND MEN

Session Chair: Ira Schulman, PhD, University of Virginia

- 5:00-5:25 *Metabolic Transitions Orchestrated by Drosophila ERR*
Keith Baker, PhD, Virginia Commonwealth University
- 5:25-5:50 *FXR + SHP Double Knockouts – Bitter, Bigger, and Leaner*
Sayee Anakk, PhD, Baylor College of Medicine
- 5:50-6:15 *Regulation of Reverse Cholesterol Transport and Atherosclerosis by LXRs*
Ira Schulman, PhD, University of Virginia
- 6:15-6:40 *Next Generation LXR Modulators: Lessons Learned from WAY-25263*
Jay Wrobel, PhD, Fox Chase Chemical Diversity Center
- 6:40 PM ADJOURN – DINNER ON YOUR OWN

SATURDAY, October 8

7:00-8:00 AM CONTINENTAL BREAKFAST

SESSION 6: CLINICAL ASPECTS OF ATHEROSCLEROSIS AND DIABETES

Session Chair: Coleen McNamara, PhD, University of Virginia

- 8:00-8:25 *Overview of Atherosclerosis & Diabetes*
Peter Wilson, MD, Emory University School of Medicine
- 8:25-8:50 *Inflammation in T2DM: Risk Marker of Risk Factor*
Lisa Tannock, PhD, University of Kentucky
- 8:50-9:15 *Structural & Functional Biomarkers of Atherosclerosis in Humans*
Angela Taylor, PhD, University of Virginia
- 9:15-9:40 *Challenges of Translating Basic Findings to the Clinical Area*
Mark Kowala, PhD, Eli Lilly
- 9:40-10:00 PANEL DISCUSSION: TRANSLATING BASIC FINDINGS TO CLINICAL
Peter Wilson, Lisa Tannock, Angela Taylor, Mark Kowala, Coleen McNamara
- 10:00-10:30 BREAK

SESSION 7: LIPID METABOLITES

Session Chair: Jay Jerome, PhD, Vanderbilt University School of Medicine

- 10:30-10:45 *Selective Cholesteryl Ester Uptake from Native LDL Contributes to Macrophage Foam Cell Formation*
Jason Meyer, PhD, University of Kentucky
- 10:45-11:00 *The Effects of Cholesterol, Triglycerides, and Fatty Acids on Lysosomal Function*
Brian Cox, PhD, Vanderbilt University School of Medicine
- 11:00-11:25 *Lipid Aldehydes Induce Inflammation by Modifying Phosphatidylethanolamine*
Sean Davies, PhD, Vanderbilt University School of Medicine
- 11:25-11:40 *CGI-58/Abhd5 – Regulates Macrophage Content in Adipose Tissue*
Caleb Lord, PhD, Wake Forest University School of Medicine University
- 11:40-12:05 *The Role of Ceramide & Mitochondrial ROS in Insulin Resistance*
Kyle Hoehn, PhD, University of Virginia
- 12:05-12:30 *New Therapeutic Strategies for Obesity-Induced Type 2 Diabetes Using Electrophilic Nitro-Fatty Acids*
Nicholas Khoo, PhD, University of Pittsburgh
- 12:30 PM CLOSING COMMENTS AND ADJOURNMENT – Norbert Leitinger and Alyssa Hasty