

# 2018 Southeast Lipid Research Conference

Held in conjunction with

**Vanderbilt University Diabetes Day**

Student Life Center -Nashville, TN

## **Thursday, November 1**

Vanderbilt Student Life Center | Ballrooms A-C

### **8:00 am**

Registration| Continental Breakfast

8:30

Session I – Novel Aspects of Lipid Trafficking

Chair:

8:15

Rupinder Kaur, University of Kentucky

*The relative contribution of liver and intestine to cholesterol excretion*

8:45

Sarah Cohen, Ph.D., University of North Carolina

*Advanced imaging approaches to probe lipid droplet dynamics and function*

9:15

Chia-Chi Chuang Key, PhD, Wake Forest

*Hepatic cholesterol trafficking, insulin signaling and lipogenesis*

### **9:45**

Break

10:00

Vincenza Cifarelli, Ph.D., Washington University

*CD36 Regulates Lymphatic Endothelial Cells by Modulating VEGF-C Activation and Signaling*

10:30

Kirk Habegger, Ph.D, University of Alabama Birmingham

*Glucagon-Receptor Signaling Regulates Energy Balance and Fatty Acid Oxidation via FXR*

## **Session II – Metabolomics, lipidomics and microbe-derived factors that regulate lipid metabolism:**

Chair:

11:00

Phillip White, Ph.D., Duke

*Identification of a new branch of regulation for de novo lipogenesis*

11:30

Jamey Young, Ph.D, Vanderbilt

*The fat is in the fire: In vivo  $2H/13C$  flux analysis of liver metabolism in a NASH mouse model*

**Noon-1:00 pm: Lunch**

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## **Thursday, November 2 – Session II Continued**

1:00 pm

Jane Ferguson, Ph.D., Vanderbilt

*Effects of diet and microbiome composition on the metabolome*

1:30

Rebecca Schugar, Ph.D, Cleveland Clinic

*TMA lyase inhibition improves obesity driven by high-fat diet and leptin deficiency*

**2:00**

### **Session III – Human Lipoprotein Metabolism and NAFLD**

Chair:

2:00

Takhar Kasumov, Ph.D., Northeast Ohio Medical University

*Derailing HDL Metabolism with Fat and Sugar*

2:30

Melanie Cree Green, Ph.D, University of Colorado

*Unraveling mechanisms of early NAFLD in adolescent girls*

3:00

Changting Xiao, Ph.D., University of Toronto

*Regulation of Intestinal Lipoprotein Secretion and Lipid Mobilization by Glucose in Humans*

3:30

Peter Crawford MD, PhD, University of Minnesota

*Untargeted metabolomics reveals an intercellular ketone shuttle that protects against hepatic fibrosis*

**4:00**

Break

**4:15**

Virgil Brown Lecture

Samuel Klein, M.D., Washington University School of Medicine

*Metabolic heterogeneity of obesity: what's fat got to do with it?*

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## **Friday, November 2**

**Vanderbilt University Diabetes Day**

Student Life Center | Ballrooms A-C

- 8:15 am** Registration and light refreshments
- 8:35 am** Overview of the Vanderbilt Diabetes programs and Introduction to Diabetes Day
- 8:50 am** Robert V. Farese Jr., MD  
Professor of Genetics & Complex Diseases, Harvard School Public Health  
Professor of Cell Biology, Harvard Medical School
- 9:45 am** Junior Faculty 90 sec Poster Pitches
- 10:00 am** Poster Session I (odd numbered posters)
- 10:45 am** C. Robb Flynn, PhD  
“The gallbladder, bile acids, and metabolic control”  
Associate Professor of Medicine; Division of Surgery
- 11:15 am** Justin M. Gregory, MD  
Assistant Professor of Medicine; Division of Pediatric Endocrinology  
Vanderbilt DRTC Pilot & Feasibility Awardee
- 11:30 am** Lindsay S. Mayberry, PhD  
Assistant Professor of Medicine; Division of General Medicine and Public Health  
Vanderbilt CDTR Pilot and Feasibility Awardee
- 11:45 am** Roundtable Discussion with Boxed Lunches provided
- 12:50 pm** Overview of Vanderbilt CDTR
- 1:00 pm** Kristen L. Knutson, MD  
“Sleep and Diabetes”  
Associate Professor of Neurology  
Northwestern University School of Medicine
- 1:55 pm** Russell L. Rothman, MD MPP  
“Health Literacy and Diabetes Self-Care”  
Professor, Internal Medicine, Pediatrics, & Health Policy  
Chief, Internal Medicine and Pediatrics
- 2:25 pm** Poster Session II (even numbered posters)
- 3:10 pm** Presentation of Vanderbilt Scholars in Diabetes Awards  
and Robert K. Hall Service Award and Awardee Talks
- 3:45 pm** Alyssa H. Hasty, PhD  
“Ironing out a novel homeostatic role for resident adipose tissue macrophages”

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## **Friday, November 2, cont.,**

**4:10 pm** Presentation of Poster Award and Early Registration Raffle Winners

**4:20 pm** **Diabetes Jeopardy with wine and hors d'oeuvres**

## **Saturday, November 3rd**

Vanderbilt Student Life Center | Ballrooms A-C

**8:00**

Light Refreshments

**8:30**

**Session IV – Sex Differences in Lipid and Lipoprotein Metabolism**

Chair: Sophia Yu, MD., Vanderbilt University School of Medicine

8:30

Lin Zhu MD, Ph.D., Vanderbilt University School of Medicine

*Liver estrogen signaling and HDL function*

9:00

Kelsey Jarrett, Baylor College of Medicine

*Using AAV-CRISPR to model atherosclerosis in male and female mice*

9:30

Xia Yang, Ph.D., UCLA

*Systems Network Modeling of Metabolic Diseases and Sex Differences*

10:00

Zeynep Madak-Erdogan, Ph.D., University of Illinois

*Systems biology of Estrogen Receptor Signaling in Metabolism*

**10:30 am**

Break

**10:45am**

**Short Talks Chosen from Abstracts**

**10:45**

**11:00**

**11:15**

**11:30**