

2016 Southeast Lipid Research Conference

Held in conjunction with

University of Kentucky Cardiovascular Research Day

Lexington, KY

Wednesday, November 2

21C Museum Hotel | Gallery 4 5:00 – 8:00 pm

Registration | Appetizers | Drinks

Thursday, November 3

21C Museum Hotel | Main Gallery

8:00

Registration | Continental Breakfast

8:30

Session I - Lipids and Lipoproteins

Chair: Sean Davidson, PhD

Sean Davidson, PhD

HDL: A Structured Platform for Cardioprotective Functions

Saskia Neher, PhD

New Insights into Lipoprotein Lipase Maturation

Elizabeth Tarling, PhD

A Novel Post-Translational Regulator of Lipid Metabolism

Alisha Coffey

Discovering the Genetic Architecture of Hepatic microRNAs in Diet-Associated Atherosclerosis

10:30

Break

10:45

Session II - Lipids and Microbiome

Chair: Mark Brown, PhD

Jennifer Wood, PhD

Obesity and the Development of Bad Eggs: Role of Inflammation and an Altered Gut Microbiome

Linda Zhang, PhD

Therapeutically Modified Gut Bacteria: Potential Therapeutic For Cardiometabolic Disease

Thursday, November 3 - Continued

Rebecca Schugar, PhD

The Gut Microbial Metabolite Trimethylamine Influences Energy Expenditure through the Beiging of White Adipose Tissue

Weifei Zhu, PhD

Gut Microbiota–Dependent Metabolite, TMAO, Promotes Thrombosis

12:45

Lunch | Career Development Workshop for Trainees: Funding Opportunities and Grantsmanship

1:45

Session III - Novel Factors in Dyslipidemia

Chair: Ryan Temel, PhD

Amelia Linnemann, PhD

IL-6 Mediated Regulation of Autophagy and Beta-Cell Survival

Xuewei Zhu, PhD

Dietary Pufas Enhance Macrophage Autophagy, Attenuate NLRP3 Inflammasome Activation, and Reduce Atherosclerosis

Danielle Dean, PhD

Nutrient Regulation of Pancreatic Islet Cells

3:15

Break

3:30

Virgil Brown Lecture

Edward Fisher, MD, PhD

Macrophages and Smooth Muscle Cells: Chameleons in Atherosclerosis

Evening Social

Buffalo Trace Distillery

5:15

Load Bus to Distillery

6:00 – 9:00

Distillery Tours | Bourbon Tasting | Dinner

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Friday, November 4

University of Kentucky Cardiovascular Research Day Lexington
Convention Center | Bluegrass Ballrooms

8:30 Guest Check-In | Continental Breakfast

9:00 Scientific Session I

Research Blitz

Shayan Mohammadmoradi | University of Kentucky

Yan Nie, PhD | Wakeforest University

Éva Gatineau, PhD | University of Kentucky

Samuel Slone | University of Cincinnati

Feiming Ye | University of Kentucky

Michael Petriello, PhD | University of Kentucky

Robert Helsley, PhD | Cleveland Clinic

Tara Shrout | University of Kentucky

Carrie Wiese | Vanderbilt University

Trainee Presentations

David Henson | Graduate Student

Nuanced Immune Response to Apolipoprotein A-I in Cardiovascular Disease

Principal Investigator - Vincent Venditto, PhD | University of Kentucky

Patrick Van Hoose, PhD | Postdoctoral Fellow

Conjugated Linoleic Acid and Nitrite Attenuate Mitochondrial Dysfunction during Myocardial Ischemia

Principal Investigator - Marsha Cole, PhD | University of Louisville

Friday, November 4 – Continued

Rahul Annabathula | Medical Student

Reduced Mortality in Sepsis-Related Troponin Elevation with Statin and Beta Adrenergic Blockade

Principal Investigator - Vincent Sorrell, MD | University of Kentucky

Break

Alumni Presentation

Brian Eigel, PhD

Innovative Approaches to Improving Cardiac Arrest Survival

Senior Vice President, Emergency Cardiovascular Care Programs

American Heart Association

Gill Award Lecture

Barry S. Coller, MD

From the Rivers of Babylon to the Coronary Bloodstream: The $\alpha IIb\beta 3$ Story

Physician-in-Chief | Vice President for Medical Affairs | David Rockefeller

Professor | Allen and Frances Adler Laboratory of Blood and Vascular Biology

The Rockefeller University

11:45 Lunch | Scientific Session II

Welcoming Comments

Robert DiPaola, MD, Dean, College of Medicine

Key Note Speaker

Mark Creager, MD

Vascular Disease and the Journey to Vascular Health

Immediate Past President, American Heart Association

Director, Heart and Vascular Center at Dartmouth-Hitchcock Medical Center

Friday, November 4 – Continued

1:00 Poster Session

1:00 – 2:00 – Present Odd Number Posters

2:00 – 3:00 – Present Even Number Posters

3:00 Scientific Session III

Research Blitz

Aida Javidan | University of Kentucky

Yufeng Chu, PhD | University of Kentucky

Hisashi Sawada, MD | University of Kentucky

Xiang Ye, PhD | University of Kentucky

Sophia Yu, MD | Vanderbilt University

Jeff Chen | University of Kentucky

Yasir Alsiraj | University of Kentucky

Tianfei Hou | University of Kentucky

Sarah Anthony | University of Cincinnati

Nalini Santanam PhD | Marshall University

Trainee Presentations

Keith Saum | Graduate Student

Advanced Glycation End Products Contribute to Endothelial Dysfunction through Suppression of Krüppel-like Factor 2 in Chronic Kidney Disease

Principal Investigator - Phillip Owens, PhD | University of Cincinnati

Chase Neumann | Graduate Student

Lipidomic Profiling Uncovers Land's Cycle Phospholipid Remodeling Pathways as Novel Therapeutic Targets in Clear Cell Renal Carcinoma

Principal Investigator – Mark Brown, PhD | Cleveland Clinic

Friday, November 4 – Continued

Tori Stromp | Graduate Student

Differentiating Cardiac Fibrosis from Hypertrophy in Patients with End Stage

Renal Disease Using Non-Contrast MRI and Imaging Guided Biomarkers

Principal Investigator – Moriel Vandsburger, PhD | University of Kentucky

Gill Award Lecture – Helen Hobbs, MD

PCSK9: From Discovery to Treatment

Investigator, Howard Hughes Medical Institute

Professor of Internal Medicine and Molecular Genetics

UT Southwestern Medical Center

5:00 Networking Reception

6:00 Dinner and Awards Presentations

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Saturday, November 5

21C Museum Hotel | Main Gallery

8:30

Continental Breakfast | Career Development Workshop for Trainees: Career Transitions

9:00

Session IV - Lipids and Genetics

Chair: Kiran Musunuru, MD, PhD

Sumeet Khetarpal, PhD

Identifying protective mechanisms of APOC3 loss-of-function variants

Nathalie Pamir, PhD

Genetics of novel HDL metrics: function, proteome, and particle concentration

Talk 3. Mete Civelek, PhD

KLFI4 locus: From association to mechanism in obesity, lipids, and diabetes

10:30

Break

11:00

Session V - Non-Traditional Animal Models of Dyslipidemia

Chair: Brian Bennett, PhD

Brian Bennett, PhD

Genetic and Dietary Factors Underlining Atherosclerosis Susceptibility

Kiran Musunuru, MD, PhD

Targeting of human lipid genes with CRISPR-Cas9 genome editing

Talk 3. Amy Burk

An ATP-citrate lyase inhibitor prevents atherosclerosis in LDLR^{-/-} Yucatan miniature pigs - A new model of familial hypercholesterolemia

12:30

Closing Remarks