

2017 Southeast Lipid Research Conference

Held in conjunction with

University of Kentucky Cardiovascular Research Day

Lexington, KY

Wednesday, November 1

21c Museum Hotel | Gallery 4

6:00 – 8:00 pm

Registration | Appetizers | Drinks

Thursday, November 2

21c Museum Hotel | Main Gallery

8:00 am

Registration | Continental Breakfast

8:30

Session I – Lipids and Lipoproteins

Chair: Amy Major, Ph.D., Vanderbilt University School of Medicine

8:30

John Melchior, Ph.D., University of Cincinnati

Molecular Interactions in HDL Revealed by Chemical Cross-linking

9:00

Scott Gordon, Ph.D., National Heart, Lung, and Blood Institute, NIH

A Novel Genetic Regulator of Intestinal Lipid Absorption

9:30

Jillian Rhoads, B.S., Vanderbilt University School of Medicine

Oxidized LDL Containing Immune Complexes Prime the NLRP3 Inflammasome and Modulate Atherosclerosis Outcomes

10:00

Richard Lee, Ph.D., Ionis Pharmaceuticals

Antisense Oligonucleotides as Therapeutics for Dyslipidemia and Metabolic Disease

10:30

Break

10:45

Session II - Obesity and Metabolic Disease

Chair: Changcheng Zhou, Ph.D., University of Kentucky

10:45

Norbert Leitinger, Ph.D., University of Virginia School of Medicine

Targeted Oxophospholipidomics and Macrophage Metabolism in Obesity

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Thursday, November 2 – Continued

11:15

Bingzhong Xue, Ph.D., Georgia State University
Macrophage AMPK and Metabolic Health

11:45

Yipeng Sui, Ph.D., University of Kentucky
IKKbeta Links Inflammation to Obesity and Osteoporosis

12:15

Candice Barber, D.V.M., Ultragenyx Pharmaceuticals
Clinical Development of UX007 for the Treatment of Long Chain Fatty Acid Oxidation Disorders

12:45

Lunch

1:45

Session III – Non-coding RNA and Lipids

Chair: Kathryn Moore, Ph.D., New York University Medical Center

1:45

Tamer Sallam, M.D., Ph.D., David Geffen School of Medicine at UCLA
Emerging Role for Non-coding RNAs in Atherosclerosis

2:15

Yanqiao Zhang, M.D., Northeast Ohio Medical University
miR-34a in Metabolic Diseases

2:45

Kathryn Moore, Ph.D., New York University Medical Center
CHROME: A Competing Endogenous RNA That Coordinates Cholesterol Efflux

3:15

Break

3:30

Virgil Brown Lecture

Stanley Hazen, M.D., Ph.D., Cleveland Clinic

Mechanism-based Inhibition of the Gut Microbial TMAO Pathway for the Treatment of Atherothrombotic Heart Disease

5:00

Evening Social

Woodford Reserve Distillery

Depart from 21c Museum Hotel Lobby for Distillery Tours | Bourbon Tasting | Dinner

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Friday, November 3

University of Kentucky Cardiovascular Research Day

Lexington Convention Center | Bluegrass Ballrooms

8:15

Guest Check –In Begins | Continental Breakfast | Bluegrass Prefunction

8:30

Career Development Session for Trainees | Continental Breakfast | Thoroughbred Room 8

9:30

Scientific Session I | Bluegrass Ballroom I

Chair: Gregory Graf, Ph.D. and Gia Mudd-Martin, Ph.D., MPH, R.N.

9:30

Alan Daugherty, Ph.D., D.Sc., Director, Saha Cardiovascular Research Center

Welcoming Comments

9:35 am

Trainee Presentations

Ahmed Al-Darraj | Ahmed Abdel-Latif Lab | University of Kentucky

Azithromycin Therapy Reduces Cardiac Inflammation and Mitigates Adverse Cardiac Remodeling after Myocardial Infarction: Potential Therapeutic Targets

Kelsey Conrad | Phil Owens Lab | University of Cincinnati

Increased Circulating Trimethylamine N-oxide (TMAO) Augments the Incidence of Abdominal Aortic Aneurysm in Low Penetrant C57BL/6J Mice

Ryan Allen, PhD | Kasey Vickers Lab | Vanderbilt University

Circulating Bacterial Small RNA Bound to LDL Induce Inflammatory Activation of Macrophages

10:35

Research Blitz

10 – 1 minute presentations by Trainees

10:45

Featured Speaker

Calum MacRae, M.D., Ph.D. | Harvard Medical School

Bridging the Gaps in Cardiovascular Translation

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Friday, November 3, Continued

11:30

Lunch | Scientific Session II | Bluegrass Prefunction

12:00

Welcoming Remarks

Mark Newman, M.D. | University of Kentucky Executive Vice President
for Health Affairs

12:15

Distinguished Alumni Presentation

John Charles, Ph.D. | NASA Human Research Program at Johnson
Space Center

From the Bluegrass to Beyond the Blue

1:00

Poster Session | Bluegrass Ballroom II

1:00 Odd Numbered Posters

2:00 Even Numbered Posters

3:00

Scientific Session III | Bluegrass Ballroom I

Chair: *Lisa Cassis, Ph.D.* and *Dan Rader, M.D.*

3:00

Trainee Presentations

Brooke Ahern | Jon Satin Lab | University of Kentucky

*Cardiac Specific Rad Deletion Enhances Cardiac Function through Safe, Stable Positive
Inotropic Support*

Ibra Fancher, PhD | Irena Levitan Lab | University of Illinois at Chicago

*Hypercholesterolemia-induced endothelial dysfunction is rescued by overexpression of
endothelial Kir2.1 in resistance arteries*

3:30

Featured Speaker

Steven Houser, Ph.D. | Temple University

Cardiac Repair and Injury

4:15

Gill Heart Institute Translational Early Career Award Recipient

Kiran Musunuru, M.D., Ph.D., MPH | University of Pennsylvania

Discovery and Therapeutic Genome Editing of Cardiovascular Disease Genes

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Friday, November 3, Continued

5:00

Networking Reception | Bluegrass Prefunction

6:00

Dinner and Awards Ceremony | Bluegrass Prefunction

Special Presentation from Mark Stoops | University of Kentucky Head Football Coach

Saturday, November 4

21c Museum Hotel | Main Gallery

8:00

Continental Breakfast

8:30

Session IV – Fatty Liver Disease

Chair: Mark Brown, Ph.D., Lerner Research Institute, Cleveland Clinic

8:30

Angel Baldan, Ph.D., St. Louis University School of Medicine

Does FSP27 Make My Liver Look Fat?

9:00

Mark Brown, Ph.D., Lerner Research Institute, Cleveland Clinic

Mechanisms Underlying the Association between Genetic Variation in MBOAT7 and Non-Alcoholic Fatty Liver Disease

9:30

Mark Young, Ph.D., Intercept Pharmaceuticals

FXR Activation in the Clinic and Laboratory: Effects on Hepatocellular and Circulating Lipids

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Saturday, November 4, Continued

10:00

Break

10:30

Session V – Lipids and Atherosclerosis

Chair: Nancy Webb, Ph.D., University of Kentucky

10:30

Peggy Robinet, Pharm.D., Ph.D., Lerner Research Institute, Cleveland Clinic
Role of the Lysosome in Foam Cell Cholesterol Metabolism

11:00

Ailing Ji, Ph.D., University of Kentucky

Impact of Insulin Receptor Signaling on ApoA-I Metabolism in Hepatocytes

11:30

Daniel Rader, M.D., Perelman School of Medicine, University of Pennsylvania
New pathways regulating hepatic and plasma lipid metabolism revealed through human genetics

12:00

Closing Remarks