

## Wednesday, September 8, 2021

Welcome Reception

Marriott Lexington City Center

2<sup>nd</sup> Floor Pre-Function Space

6:00 pm – 8:00 pm

## Thursday, September 9

FLRC Day 1

Marriott Lexington City Center

Ballrooms

 8:00 - Check-in and Continental Breakfast

### Welcome

8:30 Scott Gordon, PhD | University of Kentucky

*Opening Comments*

8:45 Virgil Brown, MD | Founder of SELRC, now FLRC

*Honoring Don Fredrickson*

### Session I: Hepatic, Intestinal, and Peripheral Lipid Metabolism

Chair: Mahmood Hussain | New York University

9:00 John Rawls, PhD | Duke University

*Microbial Regulation of Intestinal Epithelial Lipid Metabolism*

9:20 Saskia Neher, PhD | University of North Carolina


*A New Twist on Lipoprotein Lipase Trafficking*

9:40 John Stafford, MD, PhD | Vanderbilt University

*Liver Estrogen Signaling and Prevention of Fatty Liver, Dyslipidemia, and Atherosclerosis*

10:00 Selected Abstract

10:15 Selected Abstract

 10:30 – Break

## Session II: Bioinformatics in Metabolic and CVD Research

Chair: Jake Lusis | UCLA

- 11:00 Casey Romanoski, PhD | University of Arizona  
*How Do Genetic Differences Influence the Properties of Endothelial Cells?*
- 11:20 Johan Bjorkegren, MD, PhD | Icahn School of Medicine  
*A Systems Network Approach Reveals Major Adipose-to-liver Endocrine Signaling in Cardiometabolic Disease*
- 11:40 Marcus Seldin, PhD | UC Irvine  
*Systems Genetics Approaches to Investigate Inter-tissue Communication Uncovers Adipose Tissue Remodeling as a Driver of Cardiac Metabolism through ITIH5*

## 12:00: Lunch

Faculty and Staff – Lunch on Your Own (Downtown Lexington Restaurants)

Trainees – Career Development Session (Kentucky Room; Prior Registration Required)

## Session III: Lipids and Lipoproteins in Inflammation

Chair: Alison Kohan | University of Pittsburgh

- 1:30 Ali Javaheri, MD, PhD | Washington University  
*Sodium Glucose Co-Transporter Inhibition Preserves Endothelial Integrity via an Apolipoprotein M-Dependent Pathway*
- 1:50 Hanrui Zhang, PhD | Columbia University Irving Medical Center  
*Elucidating the Variant-to-function Relationship for LIPA, a Coronary Artery Disease Risk Locus*
- 2:10 Kanakadurga Singer, MD | University of Michigan  
*Diet-induced Obesity Drives Myelopoiesis and Macrophage Polarization*
- 2:30 Selected Abstract

## Thursday, September 9

FLRC Day 1

Continued



2:45 – Break

### Rudel Trainee Lectures

3:15 Trainee lectures selected from submitted abstracts



### Keynote Speaker

4:15 **Mahmood Hussain, PhD | New York University**

*Microsomal Triglyceride Transfer Protein: Control of Plasma and Tissue Lipids, Structure  
Function Analysis and Adipose-Specific Role*



5:30 – Depart Hotel Lobby for Kentucky Castle



6:00 – Dinner and Bourbon Experience at The Kentucky Castle

**Friday, September 10, 2021**

FLRC Day 2

University of Kentucky

Cardiovascular Research Day

Bill Gatton Student Center

Grand Ballrooms



University of Kentucky Gill Heart & Vascular Institute

**Cardiovascular  
Research Day**

September 10, 2021 - Bill Gatton Student Center

 8:00 to 8:40 - Busses Depart Outside Marriott Lobby to Gatton Student Center

 8:15 - Continental Breakfast Outside Worsham Theater

### Session I | Worsham Theater

9:00 - Alan Daugherty, PhD, DSc | Director, Saha Cardiovascular Research Center

*Opening Comments*

9:05 - Trainee Presentations

*Selected from submitted abstracts*

9:30 - Faculty Presentation | Emma Burks, MD

*The Genetic Landscape of Heart Failure*

10:00 - 90 Second Poster Pitch



10:15 – Break

### Poster Session A | Grand Ballrooms

10:30- Poster Session A

*Odd numbered posters presented and judged*



### Session II | Worsham Theater

**11:30 - Gill Heart and Vascular Institute Outstanding Contributions to Cardiovascular Research Award**

Elizabeth McNally, MD, PhD

Director, Center for Genetic Medicine

Northwestern University Feinberg School of Medicine

*The Genetic Landscape of Heart Failure*



### Lunch Session | Grand Ballrooms

12:15 - Buffet Lunch

12:45 - Professional Development Lecture

Amy Herman

Author of “Visual Intelligence”

2016 New York Times Bestseller

*Seeing What Matters*

**Friday, September 10, 2021**

FLRC Day 2

Continued



University of Kentucky Gill Heart & Vascular Institute

**Cardiovascular  
Research Day**

September 10, 2021 - Bill Gatton Student Center



1:45 – Break

### Session III | Worsham Theater

2:00 - Trainee Presentations

*Selected from abstracts submitted by August 31*

2:30 - Distinguished Alumni Speaker

Steven Steinhubl, MD

Director, Digital Medicine

Associate Professor of Genomic Research

Scripps Research Translational Institute

*Healthcare Transformation and the Need for More Unreasonable Clinician-Researchers*

3:00 - 90 Second Poster Pitches



3:15 – Break

### Poster Session B | Grand Ballrooms

3:30 - Poster Session B

*Even numbered posters presented and judged*



### Session IV | Worsham Theater

**4:30 - Gill Heart and Vascular Institute Early Career Award**

Katherine Gallagher, MD

John R. Pfeifer Professor of Surgery

Associate Professor of Surgery, Section of Vascular Surgery

Associate Professor of Microbiology and Immunology

University of Michigan

*Epigenetics in Vascular Disease*



### Evening Session | Grand Ballrooms

5:15 - Networking Session

6:00 - Dinner & Awards Presentations



6:45 to 7:45 - Busses Depart Gatton Student Center to Marriott City Center

## Saturday, September 11

FLRC Day 3

Marriott Lexington City Center

Ballrooms



8:30 – Continental Breakfast



### Virgil Brown Lecture

9:00 Ruth McPherson, MD, PhD | University of Ottawa Heart Institute  
*GWAS for CAD: From Locus to Function*

### Session I: Genetics of Cardiovascular and Metabolic Disease

Chair: Ruth McPherson | University of Ottawa Heart Institute

- 9:45 Robert Bauer, PhD | Columbia University  
*Trouble with Tribbles: Functional Validation of Lipid GWAS Loci*
- 10:05 Ron Do, PhD | Icahn School of Medicine  
*Genotype-first Approaches for Diagnosis of Cardiovascular Disease*
- 10:25 William Lagor, PhD | Baylor College of Medicine  
*Correction of Lipid Disorders with Liver-directed Genome Editing*
- 10:45 Liam Brunham, MD, PhD | University of British Columbia  
*Role of HDL in Sepsis and Infection*
- 11:05 Selected Abstract

11:20 – Closing remarks and meeting adjourned