# Wednesday, September 7

Welcome Reception 21C Museum Hotel, Durham Second Floor Gallery 6:00 pm – 8:00 pm

# Thursday, September 8

FLRC Day 1 21C Museum Hotel, Durham Main Gallery and Second Floor Gallery

- 8:30 Check-in and Continental Breakfast | Second Floor Gallery
- 9:00 Welcoming Comments | Main Gallery
  Saskia Neher, PhD | University of North Carolina at Chapel Hill
  John Rawls, PhD | Duke University

# Session I: Thinking Outside the Sphere: Weird and wonderful functions of lipoproteins

Chair: Sarah Cohen, PhD | University of North Carolina at Chapel Hill

- 9:05 **Priyanka Narayan, PhD** | NIDDK Understanding how lipid metabolism impacts neurodegenerative disease risk
- 9:25 **Opeyemi Olabisi, MD, PhD** | Duke University

  A friend of lipid but a toxin to kidney cells: The role of APOL1 in the pathogenesis of kidney failure in African Americans
- 9:45 **Lance Johnson, PhD** | University of Kentucky *APOE, immunometabolism, and lipid droplet dynamics in microglia*
- 10:05 Selected Abstract
- 10:20 Selected Abstract

#### 10:35 Break

# **Session II: A Celebration of Innovation: New technologies, new insights** Chair: **Scott Gordon, PhD** | University of Kentucky

- 11:00 **Michael Airola, PhD** | Stony Brook Cancer Center *Snapshots of lipid synthesis and storage*
- 11:20 **Melissa Ellermann, PhD** | University of South Carolina *Endocannabinoids modulate commensal and pathogenic Enterobacteriaceae in the gut*
- 11:40 **Meng Wang, PhD** | Baylor College of Medicine Lysosomal Lipid Signals in Longevity Regulation
- 12:00 Selected Abstract

#### **12:15** Lunch

Faculty and Staff - Lunch on Your Own

*Trainees* - Career Development Session (Prior Registration Required)

Option 1 | Gallery Three

How to Publish in High- Impact Journals: A Panel Discussion

Alan Daugherty, PhD, DSc | University of Kentucky

Suzanne Barbour, PhD | University of North Carolina at Chapel Hill

Scott Gordon, PhD | University of Kentucky

Deb Muoio, PhD | Duke University

#### Option 2 | Gallery Five

Transitional Awards from NIH

Karin Lindman, PhD | Program Director, Office of Research Training and Career Development, Division of Cardiovascular Sciences, NHLBI, NIH Ian Williamson, PhD | Postdoctoral Research Associate, Division of Gastroenterology, Duke University School of Medicine
Sarah Cohen, PhD | Assistant Professor, Cell Biology and Physiology, University of North Carolina at Chapel Hill

## 2:00 Keynote Speaker

**Karen Mohlke, PhD** | University of North Carolina at Chapel Hill *Molecular genetic mechanisms underlying inter-individual variation in lipid metabolism* 

#### 2:45 Break

# Thursday, September 9

FLRC Day 1 Continued

#### 3:15 Larry Rudel Award Lectures

Chair: Ryan Temel, PhD | University of Kentucky

Presenters selected from abstracts submitted by July 29. Cash prize for winning presentation.

- 3:15 Presenter 1
- 3:30 Presenter 2
- 3:45 Presenter 3

## Session III: I'm No Model: Lipid Metabolism in Unconventional Organisms

Chair: Robert Bauer, PhD | Columbia University

- 4:00 **Meredith Wilson, PhD** | Carnegie Institute for Science Imaging intestinal lipid droplet dynamics in vivo with fluorescent perilipin 2 and perilipin 3 knock-in zebrafish
- 4:20 **Marina Blanco, PhD** | Duke Lemur Center From fruits to fats: high sugar diets predict white adipose tissue deposition and depletion in a hibernating lemur
- 4:40 **Eva Hurt-Camejo, PhD** | Astra Zeneca

  Absence of atherogenesis associated with vasculo-protective properties of lipoproteins despite elevated total plasma lipids in brown bears (Ursus arctos)
- 4:55 Selected Abstract

# 6:00 Depart hotel lobby for the short walk to Durham Bulls Baseball Stadium

## 6:15 Dinner and Baseball (Prior Registration Required)

Durham Bulls vs Scranton/Wilkes Barr RailRiders *Pinnacle Party Deck*Durham Bulls Athletic Park

# Friday, September 9, 2021

FLRC Day 2
The North Carolina Diabetes Research Center
Annual Symposium
Haw River Ballroom



# 8:00 Buses depart 21C Museum Hotel lobby for transportation to the venue

### 9:00 Welcoming Comments

### 9:15 NCDRC Keynote Speaker

**Scott Summers, PhD** | University of Utah *Ceramides and the Two Phases of Lipotoxicity* 

#### 10:15 Presentation

**Herman Pontzer, PhD** | Duke University TBD

#### 11:00 Break

#### 11:15 Presentation

**Beth Mayer-Davis, PhD** | University of North Carolina at Chapel Hill TBD

#### **12:00** Lunch

# Friday, September 9, 2021

FLRC Day 2 Continued



#### 1:00 Afternoon Presentations

**David Herrington, MD** | Wake Forest University *TBD* 

**Anna Lee, PhD** | NC AT&T State University

Examining the Influence of Social Determinants of Health on Obesity and Diabetes among Aging African Americans

Morgana Mongraw-Chaffin, PhD | Wake Forest University

Meals for Moms: A Postpartum Medically-Tailored Meal Program to Promote Weight Loss and Blood Glucose Control Among Women with Hyperglycemia in Pregnancy **Svati Shah, PhD** | Duke University TBD

## **4:00 Closing Comments**

## 4:30 Poster Session | Cocktails

5:45 Buses depart Haw River Ballroom for 21C Museum Hotel

# Saturday, September 10

FLRC Day 3 21C Museum Hotel, Durham Main Gallery and Second Floor Gallery

### 8:30 Continental Breakfast | Second Floor Gallery

## 9:00 Virgil Brown Lecture

Deb Muoio, PhD | Duke University
Mitochondrial fitness and failure in health and disease

### Session I: The Big Picture: Systems, omics, and whole-body studies

Chair: **Svati Shah, MD, MHS** Duke University

- 9:45 **Keshari Thakali, PhD** | University of Arkansas Medical Sciences Sex Differences in Maternal Programming of Perivascular Adipose Tissue
- 10:05 **Jessica Alvarez, PhD, RD** | Emory University

  Nutritional Metabolomics to Identify Novel Pathways Linked to Body Composition
- 10:25 Selected Abstract

#### **10:40** Break

## Session II: Adios Adipose: Lipids in other tissues

Chair: Rebecca Haeusler, PhD| Columbia University

- 11:00 **Arion Kennedy, PhD** | North Carolina State University *Long chain acyl carnitines and macrophage polarization*
- 11:20 **Taku Kambayashi, MD, PhD** | University of Pennsylvania *Control of lipids through the skin by the immune-sebum axis*
- 11:40 **Phillip White, PhD** | Duke University

  A new homeostatic regulatory node at the intersection of amino acid and lipid metabolism
- 12:00 **Robert Helsley, PhD** | University of Kentucky

  Carnitine Palmitoyltransferase 1a Serves as a Gatekeeper of Sexual Dimorphic NAFLD
- 12:20 Closing remarks and meeting adjourned