



*In conjunction with*



**SEPTEMBER 11-13, 2019**

## Program

**Wednesday, September 11**

**SELRC Day 1**

**Location:** Vontz Center for Molecular Studies (Main Auditorium & Atrium, [see map](#)) **9:00 – 10:00am: Registration & Continental Breakfast** (Vontz Atrium)

**10:00am: Introduction & Welcome:** Laura Woollett, Professor of Pathology and Laboratory Medicine, Chair, 2019 Southeast Lipid Research Conference; Dr. Andrew Filak Jr., MD, Interim Senior Vice President for Health Affairs and Dean of the College of Medicine

**Session I- Hepatic and Intestinal Lipid Metabolism, Chair: Mark Brown, PhD, Cleveland Clinic**

- 10:10am: Alison Kohan, PhD, University of Pittsburgh  
“The role of Intestinal Lipoproteins in T Lymphocyte Function”
- 10:30am: Scott Gordon, PhD, University of Kentucky  
“DENND5B Regulates Intestinal Lipid Absorption and Metabolism”
- 10:50am: Jie Qu, University of Cincinnati  
“Apolipoprotein A-IV is Important in the Modulation of Obesity and Glucose Tolerance in 129X1/SvJ Mice”
- 11:10am: Robert Nathaniel Helsley, PhD, University of Cincinnati  
“Obesity-Liked Suppression of Membrane-Bound O-Acyltransferase 7 (MBOAT7) Drives Non-Alcoholic Fatty Liver Disease Progression”
- 11:30am: Ivana Semova, PhD, Boston Children's Hospital  
"Insulin regulation of cholesterol metabolism"
- 11:50am: John Melchior, PhD, University of Cincinnati  
“The Structure of apoA-II on HDL Reveals Novel Insights into its Regulation of Lipoprotein Composition and Function”

**12:10pm In Memory of Lawrence “Larry” Rudel: Scientist, Mentor, Friend:**

Mark Brown, John Melchior, Ryan Temel

**12:15 - 1:30pm Lunch (Box Lunch Provided)**

**Session II- Membrane Proteins and Lipids, Chair: Shobha Ghosh, PhD, Virginia Commonwealth University**

- 1:30pm: Avia Rosenhouse-Dantsker, DSc, University of Illinois at Chicago  
“Insights into an anomaly: the up-regulation of atrial and neuronal Kir3 channels by cholesterol”
- 1:55pm Valeria Vásquez, PhD, The University of Tennessee Health Science Center  
“Plasma Membrane fatty acid composition dictates mechanosensitive channels function”
- 2:20pm: Sudha Chakrapani, PhD, Case Western Reserve University  
“Functional Modulation of Pentameric Ligand-Gated Ion Channels by Membrane Lipids”
- 2:45pm: Gary Lorigan, PhD, Miami University  
“Investigating the Interactions of Membrane Proteins with Lipids Using Magnetic Resonance Spectroscopy”
- 3:10pm: Yaping Wang, Virginia Commonwealth University  
“High Glucose Increases DNA CpG Methylation in Promoter Regions of Insulin Signaling Pathway and Induces Lipid Accumulation in Hepatocytes”

**3:30 - 3:50pm Break (Coffee and Snacks, Vontz Atrium)**

**Session III- Vascular Biology, Chair: Phil Owens, PhD University of Cincinnati**

- 3:50pm: Neal Weintraub, MD, Augusta University  
“Partners in crime: myeloperoxidase and Nox4 in abdominal aortic aneurysm”
- 4:25pm: Frank Davis, MD, University of Michigan  
“Sepsis Induces MLL1-Mediated Epigenetic modifications in Bone Marrow and Peripheral Macrophages”
- 4:45pm: Amy Shah, MD, MS, Cincinnati Children’s Hospital  
“Linking HDL Subspecies to Human Diseases: The Role of Large HDL in Diabetes”
- 5:05pm: Hong Lu, PhD, University of Kentucky  
“Pharmacological Inhibition of Lysyl Oxidase Induces Heterogeneous Aortic Pathologies in Mice”
- 5:25pm: A. Phillip Owens III, PhD, University of Cincinnati  
“Dietary Choline Augments Abdominal Aortic Aneurysm via Increased Apoptosis and Attenuated Autophagy.”

**6:45pm: Dinner at the Banks**

For registered participants, bus leaves for The Banks from Kingsgate Hotel Lobby. Dinner on your own. <http://thebankscincy.com/>

# University of Cincinnati HLVI/MDRC Cardiometabolic Research Day

**Thursday September 12**

**Location:** University of Cincinnati Medical Sciences Building, (MSB, [see map](#)). This building is a short walk from the Kingsgate Hotel

**7:30am: Registration & Continental Breakfast** (Medical Sciences Building, Atrium)

**8:00am: Welcome,** Sakthivel Sadayappan, PhD, MBA, Professor, University of Cincinnati (Medical Sciences Building, Room 7051)

**Session IV- Cardiometabolic Disease, Chairs: Michael Bound, PhD, CCHMC & Malina Ivey, PhD, University of Cincinnati**

8:10am: Ira Goldberg, PhD, New York University  
“The Routes of the Great Lipid Exodus, from Blood to Tissues”

8:40am: Ashley Lauren Cowart, PhD, Virginia Commonwealth University  
“Atypical Sphingolipids in Cardiac Injury”

9:10am: Suresh Palaniyandi, PhD, Henry Ford Health System, Detroit  
“Mialdehyde Dehydrogenase 2 is an Important Target in Diabetic Cardiac Complications”

**9:45am: Research Blitz** (1-minute talks by graduate students and postdoctoral fellows)

**10:30am: Poster Session** (Medical Sciences Building, Level E)

**12:30pm: Lunch** (Box Lunch Provided, Medical Sciences Building, Level E Atrium)

**1:30pm: Keynote Address: Gwendalyn Randolph, PhD, Washington University in St. Louis** Introduction by David Y. Hui, Ph.D. University of Cincinnati  
*Sponsored by UC Department of Pathology and Laboratory Medicine*

**Session V- Inflammation and Metabolic Disease, Chair, Brynne Whitacre, MS, University of Cincinnati** (Medical Sciences Building, Room 7051)

2:40pm: Anna Schwendeman, PhD, University of Michigan  
“HDL in sepsis, a biomarker and potential therapeutics”

3:00pm: Arion Kennedy, PhD, North Carolina State  
“Unraveling T Cell Function in Obesity associated Nonalcoholic Fatty Liver Disease”

3:20pm: Laura Atehortua Castro, University of Cincinnati/Cincinnati Children's Hospital Medical Center  
“Mechanisms Underlying HDL-Mediated Survival of Human Regulatory T Cells”

3:40pm: Lucas Osborn, Cleveland Clinic  
“A Single Human-Relevant Fast Food Meal Produces Rapid Reorganization of the Gut Microbiome and Host Circadian Rhythms”

**5:45pm: Riverboat Dinner Cruise down the Ohio River**

For registered participants, bus leaves Kingsgate at 5:45 PM. Boat boards at 6:30 PM. Bus will return to the hotel about 10 PM.

**Friday September 13**

**SELRC Day 2**

**8:30am Continental Breakfast** (Vontz Atrium, see map)

**9:00am: SELRC Special Announcement** Virgil Brown, MD, Professor Emeritus, Emory University School of Medicine

**9:10am: Virgil Brown Distinguished Lecture: Bob Eckel, MD, University of Colorado**, Introduction by Patrick Tso, PhD University of Cincinnati.  
*Sponsored by the University of Cincinnati Mouse Metabolic Phenotyping Center*

**10:10 Short Break** (10 min)

**Session VI - Brain, Lipids and Apolipoproteins, Chair: Ling Li, PhD, University of Minnesota**

10:20am: Ling Li, PhD, University of Minnesota

“Harnessing the Vascular Protective and Lipidation Power of HDL Mimetic Peptides to Defeat Alzheimer’s Disease”

10:40am: Lance Johnson, PhD, University of Kentucky

“Tipping the Energy Balance: APOE, Lipid Droplets, and Astrocyte Metabolism”

11:00am: Danni Li, PhD, University of Minnesota

“Correlation of CSF Phospholipids and Alzheimer’s Disease Neuropathology”

11:20am: Min Liu, PhD, Professor, University of Cincinnati

"Brain Apolipoprotein A-IV Mediates Estrogenic Reduction of Dietary Obesity"

11:40am: Peter Hecker, University of Kentucky

“Intracranial atherosclerosis presents along with hallmarks of vascular cognitive impairment and dementia in nonhuman primates fed an atherogenic diet”

**12:00pm: Meeting Adjourns**

# Map of Hotel and Meeting Locations

Wednesday, September 11

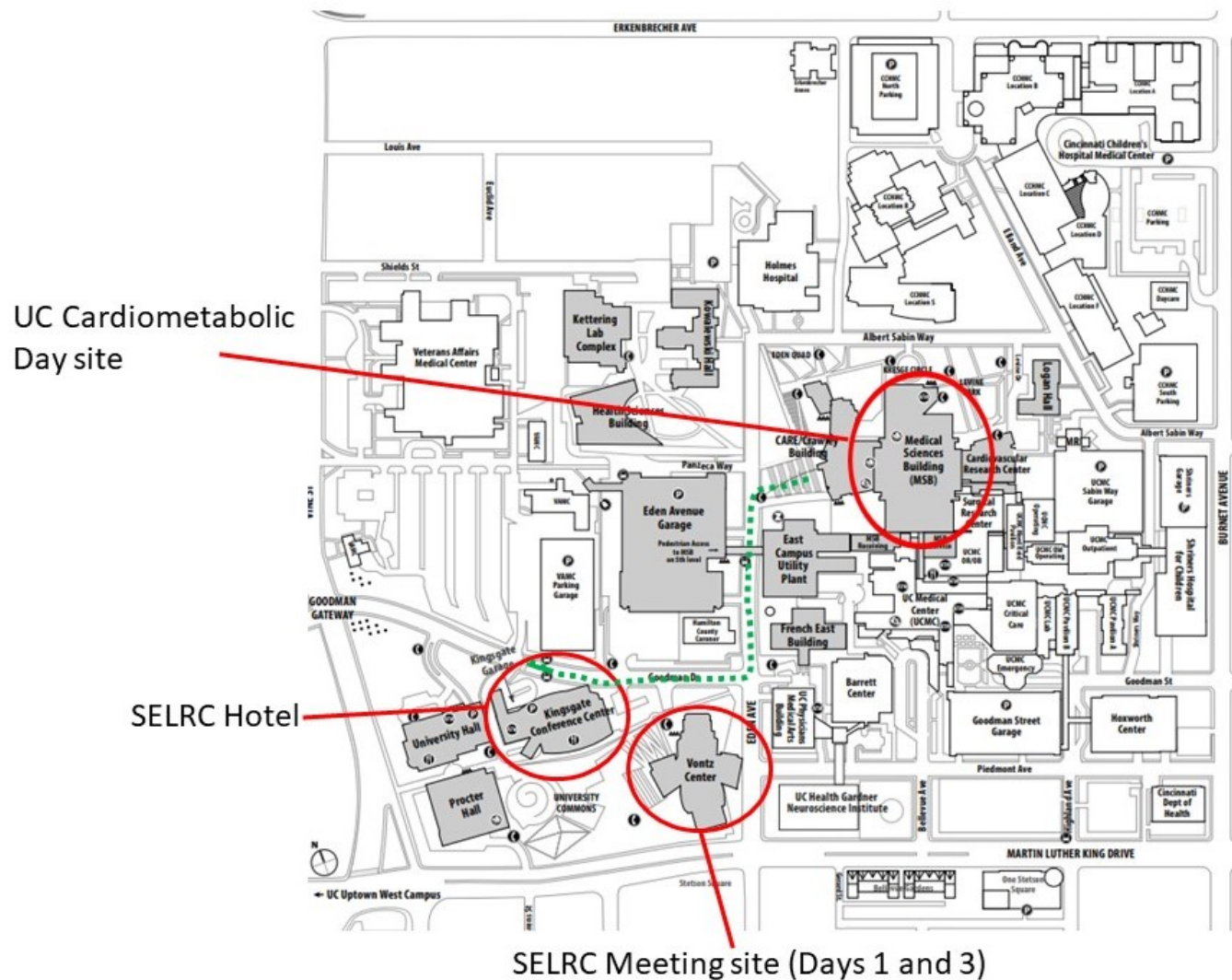
Vontz Center for Molecular Studies

Thursday, September 12

University of Cincinnati Medical Sciences Building

Friday, September 12

Vontz Center for Molecular Studies



## \* Research Blitz Participants

Mark Castleberry, University of Cincinnati

Kelsey Conrad, University of Cincinnati

Lisa Green, University of Cincinnati

David Henson, University of Kentucky

Megan Jay, University of Cincinnati

Rupinder Kaur, University of Kentucky

Shayan Mohammadmoradi, University of Kentucky

Danny Orabi, Cleveland Clinic

Hannah Russell, University of Cincinnati

Megan Slack, University of Kentucky

Samuel Slone, University of Cincinnati

Brynne Whitacre, University of Cincinnati

Pan Deng, PhD, University of Kentucky

Malina Ivey, PhD, University of Cincinnati

Nika Larian, PhD, University of Kentucky

Danielle Michell, PhD, Vanderbilt University

Linda Zhang, PhD, Vanderbilt University

## Sponsors of the 2019 Southeast Lipid Research Conference



**University of Cincinnati**  
Department of Pathology  
and Laboratory Medicine

