

## THURSDAY, APRIL 18, 2024

1:00 PM – 2:00 PM Arrivals & Registration  
Poster Set Up

2:00 **Welcome**  
Nicole L. Lohr, MD, PhD, FACC  
Director, Division of Cardiovascular Disease

### SUZANNE OPARIL LEGACY LECTURE

Chair: David M. Pollock, PhD

2:05-2:10 **Introduction**

2:10-2:50 **Fate of renin cells in health and disease**

R. Ariel Gomez, MD

2:50-2:55 *Interactive Q&A*

### T32 TRAINEE RESEARCH SPOTLIGHT

Chair: Martin E. Young, DPhil

2:55-3:00 **Introduction of Trainee Presenters**

3:00-3:10 **A prevention protocol reduces spinal cord ischemia rates in patients undergoing branched/fenestrated endovascular aortic repair**

Angela D. Sickels, MD

3:10-3:20 **The MIND diet and metabolites in hypertension and chronic kidney disease**

Catharine (Katie) A. Couch, PhD

3:20-3:30 **Pressure, oxygen, and pulmonary outcomes in extremely preterm infants with respiratory distress syndrome**

Ting Wei, MD, PhD

3:30-3:40 **Discovering the relationship between protein O-GlcNAcylation and mitochondria oxidative phosphorylation in the mouse heart**

Margaret B. Bell, PhD

3:40-3:50 **Developing in vitro cardiac models to dissect the mechanisms of cardiac tissue injury following streptococcus pneumonia infection**

Ian C. Berg, PhD

3:50-4:00 **Session Wrap-up & Interactive Discussion**

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### 4:00-5:00 24<sup>th</sup> Annual VB&H Poster Session

Location: 1301 10<sup>th</sup> Avenue South (UAB Alumni House)

To Poster Session Presenters:

Please wait and remove your poster during the break tomorrow (Friday April 19) – Thank you and good luck!

5:00 PM **ADJOURNMENT**

## FRIDAY, APRIL 19, 2024

8:00 AM – 8:45 AM ARRIVALS & BREAKFAST

### DEVELOPMENTAL AND EARLY LIFE CONTRIBUTIONS TO HYPERTENSION

Chair: Michael E. Seifert, MD, MSCI, FAST

8:45 **Welcome and Session Introduction**

8:50-9:30 **Why should we worry about hypertension in children?**

Daniel I. Feig, MD, PhD, MS

9:30-9:35 *Interactive Q&A*

9:35-10:15 **Antihypertensive pharmacotherapy in preterm infants**

Matthew S. Loop, PhD, FAHA

10:15-10:20 *Interactive Q&A*

10:20-10:30 **BREAK**

Chair: Erica C. Bjornstad, MD, PhD, MPH

10:30 **Session Introduction**

10:30-11:10 **A holistic look at pediatric hypertension**

Donald L. Batsky, MD, FAAP

11:10-11:15 *Interactive Q&A*

11:15-11:55 **Nephron progenitor cells in health and disease**

Samir S. El-Dahr, MD

11:55-12:00 *Interactive Q&A*

12:00-1:00 **LUNCH AND AWARDS CEREMONY**

### SYNERGY OF HYPERTENSION AND KIDNEY DISEASE

Chair: Emily B. Levitan, ScD

1:00 **Session Introduction**

1:00-1:40 **Hypertension and kidney disease in the Dahl rat**

Paul W. Sanders, MD

1:40-1:45 *Interactive Q&A*

1:45-2:25 **Blood pressure, hypertension phenotypes and CKD progression: Findings from the Chronic Renal Insufficiency Cohort (CRIC) Study**

Amanda H. Anderson, PhD, MPH, FASN

2:25-2:30 *Interactive Q&A*

2:30-3:10 **Extending the evidence on dietary strategies for the prevention of cardiovascular disease to kidney disease**

Casey M. Rebholz, PhD, MS, MNSP, MPH, FAHA

3:10-3:15 *Interactive Q&A*

3:15 PM **ADJOURNMENT**

## SYMPOSIUM FACULTY

### Amanda H. Anderson, PhD, MPH, FASN

Professor and Vice Chair for Research

Department of Epidemiology

UAB, School of Public Health

### Donald L. Batsky MD, FAAP

Associate Dean, Medical Student Admissions

and Special Programs

Professor of Pediatrics

The University of Cincinnati College of Medicine

Pediatric Nephrologist, Cincinnati Children's

Hospital Medical Center

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### Erica C. Bjornstad, MD, PhD, MPH

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### Samir S. El-Dahr, MD

Jane B. Aron Professor

Chair, Department of Pediatrics

Tulane University School of Medicine

Pediatrician-in-Chief, Children's Hospital

of New Orleans

New Orleans, Louisiana

### Daniel I. Feig, MD, PhD, MS

Margaret Porter Professor of Pediatrics

Director, Pediatric Nephrology

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### R. Ariel Gomez, MD

Harrison Distinguished Professor of Pediatrics

Director, Child Health Research Center

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University of Virginia

Charlottesville, Virginia

### Emily B. Levitan, ScD

Professor and Vice Chair for

Faculty Development

Department of Epidemiology

UAB, School of Public Health

## SYMPOSIUM FACULTY

### **Nicole L. Lohr, MD, PhD, FACC**

Professor and Director  
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Co-Director, UAB Cardiovascular Institute  
Mary G. Waters Chair of Cardiovascular Medicine  
Department of Medicine  
UAB, Heersink School of Medicine

### **Matthew S. Loop, PhD, FAHA**

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Health Outcomes Research and Policy  
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Auburn University  
Auburn, Alabama

### **David M. Pollock, PhD**

Professor and Co-Director  
Cardio-Renal Physiology and Medicine  
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Department of Medicine  
UAB, Heersink School of Medicine

### **Casey M. Rebholz, PhD, MS, MNSP, MPH, FAHA**

Associate Professor of Epidemiology  
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### **Paul W. Sanders, MD**

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### **Michael E. Seifert, MD, MSCI, FAST**

Professor and Medical Director,  
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Department of Pediatrics  
Division of Nephrology  
Department of Medicine  
UAB, Heersink School of Medicine

### **Martin E. Young, DPhil**

Distinguished Professor of Medicine  
Jeanne V. Marks Endowed Chair of  
Cardiovascular Disease  
Division of Cardiovascular Disease  
Department of Medicine  
UAB, Heersink School of Medicine



## 34<sup>th</sup> Annual VB&H Symposium EDUCATIONAL OBJECTIVES

Identify early life contributions to hypertension in children and adolescents.

Recognize the important role that renin cells play in overall health and disease.

Identify dietary strategies for prevention of cardiovascular disease to kidney disease.

## ACCREDITATION

To receive CME credit, you must sign in at the Registration Desk each day and submit requested information.

The University of Alabama School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The University of Alabama School of Medicine designates this live activity for a maximum of **8 AMA PRA Category 1 Credit(s)**<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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## Acknowledgments

### **Nicole L. Lohr, MD, PhD**

Professor and Director, Division of Cardiovascular Disease  
Co-Director, UAB Cardiovascular Institute  
Director, UAB Comprehensive Cardiovascular Center

### **Suzanne Oparil, MD**

UAB Vascular Biology & Hypertension Program  
Director (1985-2023)

### **David M. Pollock, PhD**

Professor and Co-Director, Cardio-Renal Physiology and Medicine  
Division of Nephrology, UAB Medicine  
Director, UAB Hypertension Research Center

### **Martin E. Young, DPhil**

T32 HL007457 Program Director  
Distinguished Professor, Division of Cardiovascular Disease

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CARDIOVASCULAR CENTER  
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# 34<sup>th</sup> Annual Vascular Biology and Hypertension Symposium

UAB National Alumni Society House  
1301 10<sup>th</sup> Avenue South  
Birmingham, Alabama

April 18-19, 2024

*Jointly Sponsored by*  
*Vascular Biology & Hypertension Program*  
*Division of Cardiovascular Disease*  
*Cardio-Renal Physiology and Medicine*  
*Division of Nephrology*  
*Department of Medicine*  
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