<table>
<thead>
<tr>
<th>Time</th>
<th>Thursday, Sept. 5</th>
<th>Friday, Sept. 6</th>
<th>Saturday, Sept. 7</th>
<th>Sunday, Sept. 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Coffee &amp; Exhibits</td>
<td>Coffee &amp; Exhibits</td>
<td>Coffee &amp; Exhibits</td>
<td>Coffee</td>
</tr>
<tr>
<td>7:30-9:00 AM</td>
<td>Session 1.1</td>
<td>Session 7</td>
<td>Concurrent Session 13</td>
<td>Concurrent Session 18</td>
</tr>
<tr>
<td>7:30-10:00 AM</td>
<td>President’s Welcome and Opening Remarks</td>
<td>Recent Advances: Microbiome</td>
<td>A – Nutrition, Salt and Hypertension</td>
<td>D – Clinical Practice: Clinical Science Track: Blood Pressure Controversies: The Central Nervous System and the Older Patient</td>
</tr>
<tr>
<td></td>
<td>Curt D. Sigmund, PhD, FAHA, Chair. Fall Conference Planning Committee</td>
<td>B – Vascular Biology and Function</td>
<td>D – Primary Care Track: Atrial Fibrillation and Hypertension in Primary Care Setting</td>
<td>B – Inflammation and Immune Mechanisms</td>
</tr>
<tr>
<td></td>
<td>Karen Griffin, MD, FAHA, Chair. Council on Hypertension</td>
<td>C – Gender Differences and Sex Hormones</td>
<td>8:30-9:30 AM D – Primary Care Track: Diabetes and Hypertension</td>
<td>C – Mechanisms in Chronic Kidney Disease and Fibrosis</td>
</tr>
<tr>
<td></td>
<td>Session 1.2</td>
<td>9:00-9:30 AM Donald Seldin Award Lecture</td>
<td>9:00-9:30 AM The Lewis K. Dahl Memorial Lecture</td>
<td>9:00-9:30 AM</td>
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<tr>
<td>8:00-9:00 AM</td>
<td>Session 1.2</td>
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<tr>
<td>9:00-10:00 AM</td>
<td>Recent Advances in Hypertension: Keynote Lectures</td>
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<tr>
<td>9:00-10:30 AM</td>
<td>Session 1.2</td>
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<tr>
<td>9:30-10:00 AM</td>
<td>Refreshment Break</td>
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<tr>
<td>10:00-10:30 AM</td>
<td>Refreshment Break</td>
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<tr>
<td>10:30-11:10 AM</td>
<td>Session 3</td>
<td>Session 8</td>
<td>Concurrent Session 14</td>
<td>Concurrent Session 19</td>
</tr>
<tr>
<td>11:10 AM-12:00 PM</td>
<td>Recent Advances: Relationship Between Metabolism and Blood Pressure</td>
<td>Recent Advances: Chronotherapy and Circadian Rhythms in Hypertension</td>
<td>10:00-10:30 AM The Harriet Dustan Award Lecture</td>
<td>10:00-11:30 AM</td>
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<tr>
<td>11:10 AM-12:00 PM</td>
<td>Session 4</td>
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<tr>
<td>12:00–1:30 PM</td>
<td>Lunch on your own</td>
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<tr>
<td>12:00–1:30 PM</td>
<td>Lunch on your own</td>
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<tr>
<td>1:30-3:00 PM</td>
<td>Concurrent Session 6</td>
<td>Session 10</td>
<td>Concurrent Session 10</td>
<td>Concurrent Session 19</td>
</tr>
<tr>
<td></td>
<td>1:30-3:00 PM POSTER SESSION II</td>
<td>1:30-3:00 PM POSTER SESSION III</td>
<td>10:00-12:00 PM A – Renal Transport Mechanisms</td>
<td>10:00-11:30 AM</td>
</tr>
<tr>
<td></td>
<td>3:00-3:30 PM Refreshment Break</td>
<td></td>
<td>B – Regulation of Blood Pressure by the Central Nervous System</td>
<td>B – Renal Hemodynamics Mechanisms</td>
</tr>
<tr>
<td></td>
<td>3:00-3:30 PM Refreshment Break</td>
<td></td>
<td>C – Cardiac Hypertrophy and Dysfunction in Hypertension</td>
<td>C – Preeclampsia and Developmental Programming</td>
</tr>
<tr>
<td>3:00-3:30 PM</td>
<td>Concurrent Session 11</td>
<td>Session 15</td>
<td>Concurrent Session 16</td>
<td>Concurrent Session 19</td>
</tr>
<tr>
<td>3:30-5:30 PM</td>
<td>3:30-4:00 PM Arthur C. Corcoran Memorial Lecture</td>
<td>1:30-3:00 PM POSTER SESSION III</td>
<td>3:30-5:30 PM D – Clinical Practice: Clinical Science Track: Hypertension Journal CPC Case Study Session</td>
<td>D – Clinical Practice: Clinical Science Track: Blood Pressure Controversies: The Central Nervous System and the Older Patient</td>
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<td>3:30-4:00 PM</td>
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<td></td>
<td>4:00-5:30 PM A – Chemoreceptor and Autonomic Mechanisms</td>
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<td>4:00-5:30 PM</td>
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<td>5:00-5:30 PM</td>
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<td>5:30-6:45 PM</td>
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<tr>
<td>5:30-7:30 PM</td>
<td>Concurrent Session 12</td>
<td>Session 17</td>
<td>Concurrent Session 16</td>
<td>Concurrent Session 19</td>
</tr>
<tr>
<td></td>
<td>5:30-7:30 PM POSTER SESSION I Trainee Onsite Poster Competition with Reception</td>
<td>5:45-6:30 PM The Excellence in Hypertension Research Award Lecture</td>
<td>3:30-5:30 PM D – Clinical Practice: Clinical Science Track: Hypertension Journal CPC Case Study Session</td>
<td>D – Clinical Practice: Clinical Science Track: Blood Pressure Controversies: The Central Nervous System and the Older Patient</td>
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<td>5:30-7:30 PM</td>
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<tr>
<td>7:00-11:00 PM</td>
<td>7:00 PM Social (cash bar) Dinner ticket required for entrance</td>
<td>7:00 PM The Annual Hypertension Scientific Sessions Awards Banquet Dinner ticket required</td>
<td>7:00 PM The Annual Hypertension Scientific Sessions Awards Banquet Dinner ticket required</td>
<td>7:00 PM The Annual Hypertension Scientific Sessions Awards Banquet Dinner ticket required</td>
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<tr>
<td></td>
<td>Trainee Advocacy Mixer</td>
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</tbody>
</table>

**Legend**

- Joint Attended Session
- Concurrent D: Primary Care Track
- Concurrent D: Clinical Practice Clinical Science Track
- Council on Hypertension
- Poster Session
- Lunch and Breaks
Letter From the Chair

September 5, 2019

Dear Colleagues,

On behalf of the American Heart Association Council on Hypertension and Council on the Kidney in Cardiovascular Disease, it’s my pleasure to welcome you to the Hypertension 2019 Scientific Sessions. This conference, focusing on advances in basic and clinical research on hypertension, is considered the premier scientific meeting on the subject in the world. The science submitted to this conference continues to feature the most up-to-date developments on our understanding of the causes of hypertension; its relationship to stroke, cardiac disease and kidney dysfunction; and the most effective ways to detect, evaluate and treat high blood pressure across diverse populations.

We’re pleased to have two opening keynote lectures this year: Sir Mark Caulfield, FMedSci, FAHA, presenting “Blood Pressure Genomewide Studies at One Million,” and Mingyu Liang, PhD, FAHA, presenting “Light in the Dark Genome for Hypertension Research.”

Recent Advances in Hypertension will follow on Thursday and Friday mornings. Clinical Practice, Clinical Science and Primary Care tracks will be offered concurrently throughout the conference. Clinical Practice, Clinical Science focuses on applying clinical science to the clinician’s practice and Primary Care is a “meeting within a meeting” dedicated to practical advice for the primary care provider interested in clinical hypertension. About 415 abstracts will be presented during our 3½-day meeting — 152 of those being oral.

We hope that you take full advantage of all the excellent programming throughout the conference and enjoy New Orleans. We strive to create an enriched atmosphere for conference attendees. Please let us know if we can do anything to enhance your experience. We look forward to interacting with you during the next few days.

Sincerely,

Curt D. Sigmund, PhD, FAHA
Vice-Chair for the Council on Hypertension
Chair of the Council on Hypertension Scientific Sessions Planning Committee
Hypertension
An American Heart Association Journal

Amplify Your Wake. Publish in Hypertension.

Serving the international hypertension community through a balance of basic science research and research that may immediately help clinicians manage patient care.

2.2 Billion
Media impressions*

2 Million
Online visits per year†

6 Million
Article downloads per year†

36,908
Total cites‡

2,500+
Facebook followers§

1,293
Highest Altmetric score||

† Based on 2017 metrics calculated by HighWire Press and Wolters Kluwer.
‡ 2017 Journal Citation Reports (Clarivate Analytics, 2018).
§ As of July 2018.
|| Reflects the highest Altmetric score for a specific point in time, January-June 2018. Altmetric scores constantly change as articles are mentioned and shared online. Source: Altmetric Explorer.

Article: "Relation of Dietary Sodium (Salt) to Blood Pressure and Its Possible Modulation by Other Dietary Factors: The INTERMAP Study." Hypertension. 2018;71:631-637.

https://doi.org/10.1161/HYPER}.TENSIONAHA.117.09928.

www.hype-submit.aha-journals.org
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Questions and Information

If you have questions after reading this program, contact:

The American Heart Association
Telephone (888) 242-2453 (inside the United States)
(214) 570-5935 (outside the United States)
Fax (214) 373-3406
Email scientificconferences@heart.org
Website professional.heart.org

Professional Membership Customer Service
Lippincott, Williams & Wilkins
Telephone (800) 787-8984 (inside the United States)
Fax (301) 223-2327 (outside the United States)
Email ahaonline@lww.com
The American Heart Association is a national voluntary health organization whose mission is:
"To be a relentless force for a world of longer, healthier lives."

The American Heart Association is grateful to the Council on Hypertension 2019 Scientific Sessions Program Committee for their dedication and leadership in planning the program.

Council on Hypertension 2019 Scientific Sessions Program Committee

Curt D. Sigmund, PhD, FAHA, Chair, Medical College of Wisconsin, Milwaukee, Wisconsin
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Karen Griffin, MD, FAHA, Immediate Past Chair, Chair, Council of Hypertension, Hines VA Hospital, Hines, Illinois
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Gail Adler, MD, PhD, Brigham and Women's Hospital, Boston, Massachusetts
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John Bisognano, MD, PhD, FAHA, University of Rochester Medical Center, Rochester, New York
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Jeffrey Garvin, PhD, FAHA, Case Western Reserve University, Cleveland, Ohio
Justin L. Grobe, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin
Kenneth Jamerson, MD, University of Michigan Medical Center, Ann Arbor, Michigan
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Lilach O. Lerman, MD, PhD, FAHA, Mayo Clinic, Rochester, Minnesota
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Patrick Pagano, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania
Aldo Peixoto, MD, Yale School of Medicine, New Haven, Connecticut
Jennifer Pollock, PhD, FAHA, University of Alabama Birmingham, Birmingham, Alabama
Gary Schwartz, MD, FAHA, Mayo Clinic, Rochester, Minnesota
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Zhongie Sun, MD, PhD, FAHA, University of Tennessee, Memphis, Tennessee
Sandra Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota
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Richard Wainford, PhD, Boston University School of Medicine, Boston, Massachusetts
Stephanie W. Watts, PhD, FAHA, Michigan State University, East Lansing Michigan
R. Clinton Webb, PhD, FAHA, Augusta University, Augusta, Georgia
Brandi Wynne, PhD, Emory University School of Medicine, Atlanta, Georgia
Colin Young, PhD, George Washington University, Washington, D.C.

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David Ellison, MD, Chair, Oregon Health Sciences University, Portland, Oregon
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Allan B. Schwartz, MD, FAHA, Drexel University College of Medicine, Philadelphia, Pennsylvania
Susan P. Steigerwalt, MD, FAHA, University of Michigan, Ann Arbor, Michigan

Members of the 2019 Primary Care Track Committee

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Keith C. Ferdinand, MD, FAHA, Tulane University, New Orleans, Louisiana
F. Wilford Germino, MD, FACP, FASH, FAHA, Chair, Orland Primary Care Specialists, Chicago, Illinois

Become an AHA/ASA Professional Member and save on next year’s registration.
The American Heart Association gratefully acknowledges the unrestricted educational grant from Medtronic

Additionally, we would like to thank the following for their generous support of HTN 2019:

Hypertension, an AHA Journal

Cardiovascular Research Foundation — Center for Education

DSI

Louis Kuritzky, MD, University of Florida College of Medicine, Gainesville, Florida
Joshua A. Samuels, MD, MPH, McGovern Medical School at UT Health, Houston, Texas
Daichi Shimbo, MD, Columbia University, New York, New York
Steven M. Smith, RPH, University of Florida College of Medicine, Gainesville, Florida
Anthony J. Viera, MD, MPH, FAHA, University of North Carolina, Chapel Hill, North Carolina
Steven A. Yarows, MD, FAHA, University of Michigan Health System, Chelsea, Michigan
Abstract Graders

The program committee gratefully acknowledges these individuals for their assistance with the abstract grading process.

Barbara T. Alexander
William J. Arendshorst
Michael Bader
Jan Neil Basile
Donald Batisky
Daniel C. Battle
Vivek Bhalla
Anil K. Bidani
John D. Bisognano
Ana M. Briones
Robert Brook
K. Bridget B. Brosnihan
Angela L. Brown
David A. Calhoun
Dulce E. Casarini
Alejandro R. Chade
Steven D. Crowley
Jan H. Danser
Katia de angeli
Donald J. Dipette
Debra I. Diz
Anna F. Dominiczak
Satoru Eguchi
Khalid M. Elased
Fernando Eliovich
David H. Ellison
Michael E. Ernst
Bonita E. Falkner
Nicholas R. Ferrer
Gregory D. Fink
Joseph T. Flynn
Toshiro Fujita
Eric M. George
Roberto A. Gomez
Philip B. Gorelick
Diane E. Handy
Pamela Harding
David G. Harrison
Lisa M. Harrison Bernard
Yoshitaka Hirooka
Daria Ilatovskaya
John D. Imig
Raouf A. Khalil
Donald E. Kohan
Yoshihiro Kokubo
John B. Kostis
Nitin Kumar
Louis Kuritzky
Daniel B. Lackland
Lilach O. Lerman
Moshe Levi
Thomas E. Lohmeier
James M. Luther
Dewan S. Majid
Frank Mantero
David L. Mattson
James McCormick
Mariela E. Mendez
Kenneth D. Mitchell
Augusto C. Montezano
Alberto Nasjletti
Akira Nishiyama
Ravi Nistala
Pablo A. Ortiz
Patrick Osei Owusu
Suresh S. Palaniyandi
Kailash Nath Pandey
Joon Young Park
Iulia Polina
Ambra Pozzi
J. Howard Pratt
Morton P. Printz
Kamal Rahmouni
Richard N. Re
Richard Joseph Roman
Luis M. Rullope
Michael J. Ryan
Helio C. Salgado
Paul W. Sanders
Jennifer M. Sasser
Ernesto L. Schiffrin
Tatsuo Shimosawa
Curt D. Sigmund
Helmy M. Siraghy
James R. Sowers
David E. Stec
Colin Summers
E. Ann Tallant
Rhian M. Touyz
Paolo Verdeghia
Massimo Volpe
Richard D. Wainford
Donna Wang
Hanjun Wang
Stephanie W Watts
Michael A. Weber
Matthew R. Weir
William J. Welch
Ulrich Wenzel
Robert E. Widdop
J. Michael Wyss
Steven A. Yarows
Xueying Zhao
Irving H. Zucker

Cardiovascular Research Foundation

Join us for complimentary lunch* in a Satellite Symposium while learning about the
Renal Denervation and Blood Pressure Control: A Clinical Trial Update

Date: Friday, September 6, 2019
Time: 12:15 P.M. – 1:30 P.M.
Location: Acadia Ballroom

Speakers:
Jan Basile, MD      Michael J. Bloch, MD      Michel Azizi, MD
David E. Kandzari, MD   Michael A. Weber, MD

Supported by: Cardiovascular Research Foundation
Supported through educational grants from Medtronic, Inc. and ReCor Medical

*Complimentary lunch provided by The American Heart Association to the first 200 attendees

This event is not part of the official Hypertension 2019 Scientific Sessions
as planned by the AHA Hypertension Fall Program Committee

Become an AHA/ASA Professional Member and save on next year’s registration.
### Room Locator

#### Wednesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00-7:00 PM</td>
<td>Registration</td>
<td>Preservation Hall</td>
</tr>
<tr>
<td>Noon-4:00 PM</td>
<td>Speaker Resource Room</td>
<td>Regent</td>
</tr>
<tr>
<td>4:30-7:30 PM</td>
<td>Hypertension Fall Leadership Committee Meeting</td>
<td>Balcony K-J</td>
</tr>
</tbody>
</table>

#### Thursday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>2:00-7:00 PM</td>
<td>Registration</td>
<td>Preservation Hall</td>
</tr>
<tr>
<td>Noon-4:00 PM</td>
<td>Speaker Resource Room</td>
<td>Regent</td>
</tr>
<tr>
<td>4:30-7:30 PM</td>
<td>Hypertension Fall Leadership Committee Meeting</td>
<td>Balcony K-J</td>
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#### Friday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>6:15-8:00 AM</td>
<td>Hypertension Editors Breakfast Meeting</td>
<td>Bonaparte</td>
</tr>
<tr>
<td>7:00-8:00 AM</td>
<td>Refreshment Break and Exhibits</td>
<td>Preservation Hall</td>
</tr>
<tr>
<td>7:00 AM-7:00 PM</td>
<td>Speaker Resource Room</td>
<td>Regent</td>
</tr>
<tr>
<td>8:00-9:00 AM</td>
<td>Session 1.1: Welcome and Opening Remarks</td>
<td>Acadia</td>
</tr>
<tr>
<td>10:30-11:10 AM</td>
<td>Session 3: Recent Advances: Relationship Between Metabolism and Blood Pressure</td>
<td>Acadia</td>
</tr>
<tr>
<td>11:10 AM-Noon</td>
<td>Session 4: Recent Advances: Arterial Stiffness – Clinical Research to Mechanisms</td>
<td>Acadia</td>
</tr>
<tr>
<td>Noon-1:30 PM</td>
<td>Lunch on Own</td>
<td></td>
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<tr>
<td>Noon-5:00 PM</td>
<td>Poster Session I Set-up</td>
<td>Preservation Hall</td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td>Session 5 Concurrent A: Epidemiology of Hypertension and Atherosclerosis</td>
<td>Galerie 3</td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td>Session 5 Concurrent B: Mechanisms Involving Aldosterone and Mineralocorticoid Receptors</td>
<td>Galerie 4 and 5</td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td>Session 5 Concurrent C: Hypertension in Pregnancy and Offspring</td>
<td>Galerie 6</td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td>Session 5: Concurrent D: Clinical Practice Clinical Science Track: Update on Antihypertensive Pharmacology</td>
<td>Galerie 1 and 2</td>
</tr>
<tr>
<td>3:00-3:30 PM</td>
<td>Refreshment Break and Exhibits</td>
<td>Preservation Hall</td>
</tr>
<tr>
<td>3:30-5:30 PM</td>
<td>Session 6 Concurrent A: Neuroimmune Mechanisms in Hypertension</td>
<td>Galerie 3</td>
</tr>
<tr>
<td>3:30-5:30 PM</td>
<td>Session 6 Concurrent B: Clinical Hypertension</td>
<td>Galerie 4 and 5</td>
</tr>
<tr>
<td>3:30-5:30 PM</td>
<td>Session 6 Concurrent C: Genetics and Epigenetics in Hypertension</td>
<td>Galerie 6</td>
</tr>
<tr>
<td>3:30-5:30 PM</td>
<td>Session 6: Concurrent D: Clinical Practice Clinical Science Track: Debates</td>
<td>Galerie 1 and 2</td>
</tr>
<tr>
<td>5:30-7:30 PM</td>
<td>Poster Session I (for Trainees) with Reception</td>
<td>Preservation Hall</td>
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Don’t miss next year’s conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20
### Room Locator (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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</thead>
<tbody>
<tr>
<td>11:00-2:00 PM</td>
<td>Target BP Advisory Committee Meeting</td>
<td>Bonaparte</td>
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<tr>
<td>Noon-1:30 PM</td>
<td>Lunch on Own</td>
<td></td>
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<tr>
<td>Noon-1:30 PM</td>
<td>CHAMP Luncheon</td>
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<tr>
<td>1:30-3:00 PM</td>
<td>Poster Session II</td>
<td>Preservation Hall</td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td>Session 10: Primary Care Track: 2019 AHA Scientific Statement: Measurement of Blood Pressure in Humans</td>
<td>Galerie 1 and 2</td>
</tr>
<tr>
<td>3:00-3:30 PM</td>
<td>Refreshment Break &amp; Exhibits</td>
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<tr>
<td>3:30-4:00 PM</td>
<td>Session 11: Arthur C. Corcoran Memorial Lecture</td>
<td>Preservation Hall</td>
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<tr>
<td>4:00-5:30 PM</td>
<td>Session 11 Concurrent A: Chemoreceptor and Autonomic Mechanisms</td>
<td>Galerie 3</td>
</tr>
<tr>
<td>4:00-5:30 PM</td>
<td>Session 11 Concurrent B: Cerebrovascular Disease and Stroke</td>
<td>Galerie 4 and 5</td>
</tr>
<tr>
<td>4:00-5:30 PM</td>
<td>Session 11 Concurrent C: Hypertension Early Career Oral Awards</td>
<td>Galerie 6</td>
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<tr>
<td>3:30-5:30 PM</td>
<td>Session 11: Concurrent D: Primary Care Track: Blood Pressure Management in Women</td>
<td>Galerie 1 and 2</td>
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<tr>
<td>5:30-6:45 PM</td>
<td>Session 12: Awards Session</td>
<td>Acadia</td>
</tr>
<tr>
<td>6:00-9:00 PM</td>
<td>Hypertension Editorial Board Meeting, Reception and Dinner</td>
<td>Riverview 1</td>
</tr>
<tr>
<td>7:00-11:00 PM</td>
<td>Trainee Advocacy Mixer</td>
<td>Riverview 2</td>
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### Saturday

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<td>7:00 AM-7:00 PM</td>
<td>Registration</td>
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<td>6:30 AM-6:30 PM</td>
<td>Speaker Resource Room</td>
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<tr>
<td>7:00-7:30 AM</td>
<td>Refreshment Break and Exhibits</td>
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<tr>
<td>9:00 AM-1:00 PM</td>
<td>Poster Session III Set-up</td>
<td>Preservation Hall</td>
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<tr>
<td>7:30-9:00 AM</td>
<td>Session 13 Concurrent A: Nutrition, Salt and Hypertension</td>
<td>Galerie 3</td>
</tr>
<tr>
<td>7:30-9:00 AM</td>
<td>Session 13 Concurrent B: Vascular Biology and Function</td>
<td>Galerie 4 and 5</td>
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<tr>
<td>7:30-9:00 AM</td>
<td>Session 13 Concurrent C: Gender Differences and Sex Hormones</td>
<td>Galerie 6</td>
</tr>
<tr>
<td>9:00-9:30 AM</td>
<td>Session 13: Donald Seldin Award Lecture</td>
<td>Acadia</td>
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<tr>
<td>7:30-8:30 AM</td>
<td>Session 13: Concurrent D Part 1: Primary Care Track: Atrial Fibrillation and Diabetic Hypertension in a Primary Care Setting</td>
<td>Galerie 1 and 2</td>
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<td>8:30-9:30 AM</td>
<td>Session 13: Concurrent D Part 2: Primary Care Track: Diabetes and Hypertension</td>
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<td>10:00-10:30 AM</td>
<td>Session 14: Harriet Dustan Award Lecture</td>
<td>Acadia</td>
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<td>10:30 AM-Noon</td>
<td>Session 14 Concurrent A: Renal Transport Mechanisms</td>
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<td>10:30 AM-Noon</td>
<td>Session 14 Concurrent B: Regulation of Blood Pressure by the Central Nervous System</td>
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<td>Session 14 Concurrent C: Cardiac Hypertrophy and Dysfunction in Hypertension</td>
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<td>10:00 AM-Noon</td>
<td>Session 14: Concurrent D: Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines</td>
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<td>Noon-1:30 PM</td>
<td>Lunch on Own</td>
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<td>12:30-1:30 PM</td>
<td>Target BP Connections</td>
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<td>Poster Session III</td>
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<td>1:30-3:00 PM</td>
<td>Session 15: Concurrent D: Clinical Practice Clinical Science Track: Hypertension Control Strategies in the Populations of the Pacific Rim: A Focus on the Effective Clinical Implementation: A Joint Session of AHA and World Hypertension League</td>
<td>Galerie1 and 2</td>
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<td>3:00-3:30 PM</td>
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<td>3:00-3:30 PM</td>
<td>Awards Photo Session</td>
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<td>Session 16 Concurrent A: Renin Angiotensin System</td>
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<td>Session 16 Concurrent B: Clinical Hypertension and Target Organ Damage</td>
<td>Galerie 4 and 5</td>
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<td>3:30-5:30 PM</td>
<td>Session 16 Concurrent C: Mechanisms in Diabetes and Obesity</td>
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### Room Locator (continued)

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<tr>
<td>3:30-5:00 PM</td>
<td>Session 16: Concurrent D: Clinical Practice Clinical Science Track: Hypertension Journal CPC Case Study Session</td>
<td>Galerie 1 and 2</td>
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<td>5:45-6:30 PM</td>
<td>Session 17: The Excellence Award for Hypertension Research Lecture</td>
<td>Acadia</td>
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<tr>
<td>7:00-7:30 PM</td>
<td>VIP Reception (invitation only)</td>
<td>Napoleon</td>
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<td>7:00-7:30 PM</td>
<td>Annual Hypertension Scientific Sessions Awards Social Hour (ticketed event)</td>
<td>Acadia – Foyer</td>
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<tr>
<td>7:30-10:30 PM</td>
<td>Annual Hypertension Scientific Sessions Awards Banquet (ticketed event)</td>
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#### Sunday

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<td>Speaker Resource Room</td>
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<td>Refreshment Break</td>
<td>Preservation Hall</td>
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<td>7:30-9:00 AM</td>
<td>Session 18 Concurrent A: Vascular Stiffness and Fibrosis</td>
<td>Galerie 3</td>
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<td>7:30-9:00 AM</td>
<td>Session 18 Concurrent B: Inflammation and Immune Mechanisms</td>
<td>Galerie 4 and 5</td>
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<tr>
<td>7:30-9:00 AM</td>
<td>Session 18 Concurrent C: Mechanisms in Chronic Kidney Disease and Fibrosis</td>
<td>Galerie 6</td>
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<td>9:00-9:30 AM</td>
<td>Session 18: The Lewis K. Dahl Memorial Lecture</td>
<td>Acadia</td>
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<td>7:30-9:30 AM</td>
<td>Session 18: Concurrent D: Clinical Practice Clinical Science Track: Blood Pressure Controversies: The Central Nervous System and the Older Patient</td>
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<td>9:30-10:00 AM</td>
<td>Refreshment Break</td>
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<td>Session 19 Concurrent A: Role of the CNS in Obesity</td>
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<tr>
<td>10:00-11:30 AM</td>
<td>Session 19 Concurrent B: Renal Hemodynamics Mechanisms</td>
<td>Galerie 4 and 5</td>
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<td>10:00-11:30 AM</td>
<td>Session 19 Concurrent C: Preeclampsia and Developmental Programming</td>
<td>Galerie 6</td>
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<tr>
<td>10:00-11:30 AM</td>
<td>Session 19: Concurrent D: Clinical Practice Clinical Science Track: Treatment of Cardiorenal Syndrome</td>
<td>Galerie 1 and 2</td>
</tr>
</tbody>
</table>
Hotel Maps

2nd Floor

Chartres Street

Preservation Hall

20' x 12' x 11'
12,000 lb capacity

Service Area

La Galleries 1

Clinical Practice
Clinical Science Track

La Galleries 2

La Galleries 3

La Galleries 4

La Galleries 5

La Galleries 6

Canal Street

Become an AHA/ASA Professional Member and save on next year’s registration.
Don’t miss next year’s conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20
Program Information

Conference Summary
Hypertension 2019 Scientific Sessions, focusing on recent advances in basic and clinical research on hypertension, is the premier scientific meeting on the subject in the world. A collaborative effort between the AHA Council on Hypertension and the Council on the Kidney in Cardiovascular Disease, the science submitted to this conference continues to feature the most up-to-date developments on our understanding of the causes of hypertension; its relationship to stroke, cardiac disease and kidney dysfunction; and the most effective ways to detect, evaluate and treat high blood pressure across diverse populations.

The agenda includes 19 sessions during 3½ days, with more than 500 presentations focused on recent advances in hypertension research that include oral and poster presentations by clinical and basic researchers as well as the Primary Care and Clinical Practice, Clinical Science tracks for clinicians.

Conference Learning Objectives
After completing this program, participants will be able to:

1. Implement the AHA/ACC guidelines to prevent, detect, evaluate and manage hypertension.
2. Describe opportunities to improve blood pressure measurement in the clinical setting, as well as new research on methods to evaluate white coat and masked hypertension.
3. Identify genetics/epigenetics, microbiome, arterial stiffness, circadian rhythm and central nervous system mechanisms that contribute to the development of hypertension and discuss the research and clinical implications.
4. Identify immune and inflammatory mechanisms that contribute to the development of hypertension and hypertension-related end-organ damage and discuss the research and clinical implications.
5. Discuss weight and medical management, as well as the importance of a multi-disciplinary approach, for the management of comorbid obesity in patients with hypertension.
6. Describe current data supporting pharmacotherapy, as well as device-based interventions in resistant hypertension.
7. Describe strategies to address clinical inertia, improve blood pressure control, while engaging patients in shared decision making, in an era of value-based reimbursement framework.
Program Information (continued)

Conference Highlights

Opening Session and Lecture
Acadia

Please join us at 7:50 AM Thursday for the Welcome and Opening Remarks, featuring Curt Sigmund, PhD, FAHA, Chair, Hypertension Planning Committee; and Karen Griffin, MD, FAHA, Chair, Council on Hypertension.

Immediately following the Opening Remarks at 8:00 AM, Sir Mark Caulfield, FMedSci, FAHA, and Mingyu Liang, PhD, FAHA, will present this year’s keynote lectures.

Poster Session Featuring Trainees

All poster sessions will be held in Preservation Hall.
5:30-7:30 PM Thursday*
1:30-3:00 PM Friday
1:30-3:00 PM Saturday

“The On-site Trainee Poster Competition” will be held during Poster Session I at 5:30-7:30 PM Thursday. This session highlights presentations by trainees and features an on-site poster competition. Awards are sponsored by the Council on Hypertension Trainee Advocacy Committee. Be sure to join us and engage conference poster presenters on their innovative research. A reception will be held during this session. No additional fee for this event.

Awards Session
Acadia
5:30-6:45 PM Friday

This special session will feature several presentations, including the Mid-Career Award for Research Excellence; Harry Goldblatt Award for New Investigators; British and Irish Hypertension Society Young Investigator Award; High Blood Pressure Research Council of Australia Student Oral Award; and Stephanie Watts Career Development Award Finalist Competition.

See pages 16 for a listing of all awardees and join us for this special session.

Hypertension Journal CPC Case Study Session
Galerie 1 and 2
3:30-5:00 PM Saturday

This filmed audience participatory session, sponsored by Hypertension, an American Heart Association journal representing the Council on Hypertension and the Council on the Kidney in Cardiovascular Disease, will highlight two clinical cases presented by clinicians and discussed with experts from Hypertension’s editorial board. Audience members significantly contributing to the discussion may be included as contributing authors for the accompanying article in Hypertension.

Annual Hypertension Scientific Sessions Awards Banquet
Acadia
7:30-10:30 PM Saturday

Join us in honoring our 2019 awardees, including the recipient of the Excellence Award for Hypertension Research, Rhian M. Touyz, MBCh, PhD, FMedSci, FAHA; Irvine Page and Alva Bradley Lifetime Achievement Awardee, George L. Bakris, MD, MA, FASN, FAHA; Marvin Moser Clinical Hypertension Awardee, Jan N. Basile, MD, FACP, FAHA; and the Stephanie Watts Career Development Finalists. Details on the 2019 award winners can be found on page 16.

Members and non-members are welcome. This is a ticketed event. If you didn’t pre-register for this event, please visit the conference registration desk to see if tickets are still available.

Clinical Practice Clinical Science Track: Hypertension Control Strategies in the Populations of the Pacific Rim: A Focus on the Effective Clinical Implementation: A Joint Session of AHA and World Hypertension League
Galerie 1 and 2

Join us at 1:30 PM Saturday as we honor Dr. Jeffrey A. Cutler, MD, FAHA, the 2019 WHL Claude Lenfant Excellence Award in Population Hypertension Control recipient.
Trainee/Early Career Focused Events
We are pleased to offer numerous events for early-career attendees:

- **Noon-1:30 pm Friday**
  *Riverview 1*
  The CHAMP (Council on Hypertension Advisory and Mentoring Program) networking lunch and panel discussion, “How to choose a mentor/mentee at the graduate student, postdoc and early career level.” This year’s CHAMP Panel members are: Jane F. Reckelhoff; David Mattson; Amy Arnold and Sarah Lindsey. (Open only to CHAMP participants by invitation only. For information on CHAMP, please visit the TAC Booth)

- **5:30-7:30 pm Thursday**
  *Preservation Hall*
  **Poster Session** I features the trainee on-site poster competition and reception. *There is no fee for this event.*

- **4:00-5:30 pm Friday**
  *Galerie 6*
  The **Hypertension Early Career Oral Award Session** features the best of the best top trainee oral abstract presentations. The winner will receive the Hypertension Early Career Award and will be invited to travel to the British and Irish Society of Hypertension’s Annual Scientific Meeting. The HTN Trainee Advocacy Committee would like to thank the International Society of Hypertension New Investigator Committee, DSI, Hypertension, an AHA Journal, the British and Irish Society of Hypertension, and the Council on the Kidney in Cardiovascular Disease for their support of this award.

- **7:00-11:00 pm Friday**
  *Riverview 2*
  **Trainee Advocacy Mixer**. This popular annual event is co-sponsored by the Trainee Advocacy Committee of the Council on Hypertension, the Council on the Kidney in Cardiovascular Disease, DSI and the International Society of Hypertension New Investigator Committee. Open to all attendees, we encourage early career and trainees/students to come and enjoy music, fun and networking. *(Attendance is limited, first come, first served).*

Exhibits
Exhibits are located in *Preservation Hall* beginning at 7:00 AM Thursday. Please take a moment to visit our exhibitors and be sure to pick up an exhibitor guide at the registration desk. Refreshments will also be available in *Preservation Hall* in the morning and during breaks.

**Exhibitor Hours:**

- **7:00 AM-3:30 PM Thursday**
- **7:00 AM-3:30 PM Friday**
- **7:00 AM-3:30 PM Saturday**
The Council on Hypertension is pleased to present …

**The Excellence Award for Hypertension Research**

**Saturday, September 7, 2019**

**Molecular Mechanisms and Vascular Biology of Hypertension**

Rhian M. Touyz, MBBCh, PhD, FMedSci, FAHA
Director, Institute of Cardiovascular and Medical Sciences, British Heart Foundation
Glasgow Cardiovascular Research Centre, University of Glasgow, Glasgow, Scotland

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**Lecture**
5:45 PM
Acadia

**Social**
7:00 PM
Acadia – Foyer
*(Dinner ticket required for entrance)*

**Annual Hypertension Scientific Sessions Awards Banquet**
7:30 PM
Acadia
*(Dinner ticket required for entrance)*
Irvine Page & Alva Bradley Lifetime Achievement Award

George L. Bakris, MD, MA, FASN, FAHA.
Professor of Medicine, Director, AHA Comprehensive Hypertension Center, University of Chicago Medicine, Chicago, Illinois

The Lifetime Achievement Award is named in honor of Dr. Irvine Page and Mr. Alva Bradley, who played prominent roles in establishing the National Foundation for High Blood Pressure Research in 1945. The foundation became the Council on Hypertension of the American Heart Association.

The Page-Bradley Award is presented each year to an individual who has had a lifetime of outstanding achievements in the field of hypertension and has served as a role model through service, research and teaching. Recipients have generally had a career spanning at least 25 years.

Please join us for the presentation during the Awards Banquet at 7:30 pm Saturday in Acadia.

The Marvin Moser Clinical Hypertension Award

Jan N. Basile, MD, FACP, FAHA.
Professor of Medicine, Seinsheimer Cardiovascular Health Program, Medical University of South Carolina, Ralph H. Johnson VA Medical Center, Vice-Chair of Clinical Affairs AHA Council on Hypertension, Charleston, South Carolina

The Marvin Moser Clinical Hypertension Award honors the memory of Dr. Marvin Moser, one of the leading figures in the field of hypertension, and the inaugural editor-in-chief of The Journal of Clinical Hypertension.

After completing his cardiology fellowship at Mount Sinai Hospital in New York, Dr. Moser served as the chief of vascular disease and hypertension at the Walter Reed Army Medical Center in Washington, D.C. In the 1950’s, when hypertension was only recognized in its most malignant form and debilitating procedures were the mainstay of treatment given the lack of antihypertensive medications, Dr. Moser was one of the first to suggest that hypertension had far greater prognostic importance than just its immediate effects on major life-threatening events. He was a pioneer in the exploration of drug therapy for reducing blood pressure, thus making the treatment of hypertension possible. Dr. Moser concluded his career as a clinical professor of medicine at the Yale School of Medicine.

The Marvin Moser Clinical Hypertension Award recognizes a qualified mid-career or senior hypertension clinician for their dedication to the treatment and care of hypertensive patients.

Please join us for this presentation during the Awards Banquet at 7:30 pm Saturday in Acadia.

Arthur C. Corcoran Memorial Lecture

Patrick J. Pagano, PhD, FAHA. Professor in the Department of Pharmacology & Chemical Biology and PI of the Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, Pennsylvania

The Arthur C. Corcoran Memorial Lecture was established in 1977 to honor Dr. Arthur C. Corcoran for his early application of clearance methods in both hypertensive patients and animals.

Dr. Pagano will present his lecture at 3:30 pm Friday in Acadia.

The Lewis K. Dahl Memorial Lecture

John D. Imig, PhD, FAHA, Professor of Pharmacology and Toxicology, Director, Drug Discovery Center, Medical College of Wisconsin, Milwaukee, Wisconsin

The Lewis K. Dahl Memorial Lecture was established in 1988 by the Council for Hypertension in honor of Dr. Dahl's pioneering work on the relations between salt, the kidney and hypertension, and the establishment of a major genetically based experimental model of hypertension, the Dahl salt-sensitive rat.

Dr. Imig will present the lecture at 9:00 AM Sunday in Acadia.
Program Information (continued)

The Harriet Dustan Award

Bina Joe, PhD, FAHA, FAPS, Distinguished University Professor and Chair, Department of Physiology and Pharmacology, University of Toledo College of Medicine, Toledo, Ohio

The Harriet Dustan Award recognizes female investigators who have made outstanding contributions in the field of hypertension. This award honors the memory of Dr. Harriet Dustan, an outstanding clinician and investigator who was a tireless worker on behalf of the Council on Hypertension and the American Heart Association for more than 50 years. In addition to her numerous career achievements, Dr. Dustan served the AHA as president, chaired its Ethics and Research committees and was the founding editor-in-chief of Hypertension.

Dr. Joe will present the lecture at 10:00 AM Saturday in Acadia.

The Donald Seldin Lecture

Allen W. Cowley, Jr., PhD, FAHA, Professor of Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin

The Donald Seldin Lecture honors Dr. Donald Seldin, a pioneer and leader in the field of cardiovascular disease as it relates to kidney failure. This lecture continues to raise the awareness about the rising epidemic of cardiovascular disease and mortality in patients with chronic kidney disease.

Dr. Cowley will present the lecture at 9:00 AM Saturday in Acadia.

Mid-Career Award for Research Excellence

Daniela Carnevale, PhD, FAHA, Associate Professor, Department of Molecular Medicine, La Sapienza at IRCCS Neuromed, University of Rome, Pozzilli, Italy

The award recognizes a mid-career investigator active in hypertension or cardiovascular research. This year’s winner, Daniela Carnevale, PhD, FAHA, was selected for her major contributions to the field of hypertension. She will present at 5:30 PM Friday during the Awards Session in Acadia.

The Harry Goldblatt New Investigator Award

Francine Marques, PhD, Senior Lecturer, Head, Hypertension Research Laboratory, Monash University School of Biological Sciences, Melbourne, Australia

The award recognizes a new independent investigator working in hypertension or cardiovascular research who has significantly contributed to the understanding of the causes of hypertension and related cardiovascular disease.

The award is named after Dr. Harry Goldblatt, a pathologist who established the first animal model of hypertension in 1934. This model provided researchers with the tools to delineate the renin-angiotensin system of blood pressure control and, eventually, to design enzyme inhibitors to treat chronic hypertension.

Dr. Marques will present at 5:45 PM Friday during the Awards Session in Acadia.
The Stephanie Watts Career Development Award Finalists

The award supports early career investigators working in hypertension and cardiovascular research who show exceptional promise but may be currently unfunded or have limited access to extramural funding. The award honors the advocacy work of Dr. Stephanie Watts, an active member of the Council on Hypertension, who has always advocated for the needs of the many trainees associated with the council. Dr. Watts’ efforts led to the creation of the Trainee Advocacy Committee, which she chaired from 2005 to 2007. As a founding member of the TAC, she contributed to the planning of the Hypertension Summer School, another important Council on Hypertension initiative that helped many trainees to become highly skilled hypertension researchers.

This year’s finalists will present beginning at 6:30 PM Friday during the Awards Session in Acadia:

Jin Kwon Jeong, PhD, George Washington University, Washington, D.C., will present his pitch, “Involvement of Subfornical Organ Insulin Receptor Signaling in the Development of Angiotensin-II Hypertension” at 6:30 PM.

Lorena M. Amaral, PharmD, PhD, The University of Mississippi Medical Center, Jackson, Mississippi, will present her pitch, “Inhibition of Progesterone Induced Blocking Factor Causes Clinical Characteristics of Preeclampsia in Sprague Dawley Rats” at 6:35 PM.

Thiago Bruder do Nascimento, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania, will present his pitch “Leptin Restores Endothelial Function, Diminishes Vascular Adrenergic Contractility, but Does Not Alter Arterial Stiffness and Blood Pressure, in a Mouse Model of Congenital Generalized Lipodystrophy” at 6:40 PM.

British and Irish Hypertension Society Young Investigator Award and the High Blood Pressure Research Council of Australia Award

Part of an exchange program between societies/associations, these awards are for early career investigators to encourage them to present their research at the conference.

British and Irish Hypertension Society Young Investigator Award

Dr. Clare Oliver-Williams, Cambridge University, Cambridge United Kingdom, will present her abstract “Association Between Hypertensive Disorders of Pregnancy and Later Risk of Cardiovascular Outcomes” at 6:00 PM Friday in Acadia.

High Blood Pressure Research Council of Australia Award

Tara Elizabeth Scott, BSc (Hons), Department of Pharmacology, Biomedicine Discovery Institute, Monash University, Clayton, Victoria, Australia will present her abstract “Targeting The NLRP3 Inflammasome for the Treatment of Pulmonary Hypertension” at 6:15 PM Friday in Acadia.

Abstract Awards

Council on Hypertension New Investigator Travel Award

Sponsored by the Council on Hypertension

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<tr>
<th>Name</th>
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<th>Day/Time</th>
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<tbody>
<tr>
<td>Maia Aisicovich</td>
<td>91</td>
<td>11:00 AM Saturday</td>
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<tr>
<td>Livia Camargo</td>
<td>68</td>
<td>8:15 AM Saturday</td>
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<tr>
<td>Hannah Cooper</td>
<td>118</td>
<td>7:45 AM Saturday</td>
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<tr>
<td>Maria Jones-Muhammad</td>
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<td>Cameron McCarthy</td>
<td>66</td>
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<tr>
<td>Hannah Morris</td>
<td>P145</td>
<td>5:30 PM Thursday</td>
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<tr>
<td>Rugina Neuman</td>
<td>147</td>
<td>10:00 AM Sunday</td>
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<tr>
<td>Yuan Sun</td>
<td>97</td>
<td>4:00 PM Saturday</td>
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<tr>
<td>Olivia Travis</td>
<td>17</td>
<td>2:30 PM Thursday</td>
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<tr>
<td>Tao Yang</td>
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<td>2:00 PM Thursday</td>
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Don’t miss next year’s conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20
Program Information

New Investigator Travel Award
*Sponsored by the Council on Hypertension Trainee Advocacy Committee*

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<td>Stephanie Cicalese</td>
<td>P116</td>
<td>5:30 PM Thursday</td>
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<tr>
<td>Sharon de Morais</td>
<td>42</td>
<td>4:15 PM Friday</td>
</tr>
<tr>
<td>Shaunak Roy</td>
<td>122</td>
<td>8:45 AM Sunday</td>
</tr>
<tr>
<td>Caleb Worker</td>
<td>140</td>
<td>11:15 AM Sunday</td>
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Kidney Council New Investigator Award
*Sponsored by the Council on Kidney in Cardiovascular Disease*

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<tbody>
<tr>
<td>Mark Cunningham</td>
<td>P1110</td>
<td>5:30 PM Thursday</td>
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<tr>
<td>Andrew Eaton</td>
<td>79</td>
<td>11:00 AM Saturday</td>
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<tr>
<td>Fan Fan</td>
<td>130</td>
<td>7:45 AM Sunday</td>
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<tr>
<td>Jorge Gamboa</td>
<td>107</td>
<td>4:30 PM Saturday</td>
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<tr>
<td>Supaporn Kulthinee</td>
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<td>10:15 AM Sunday</td>
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<tr>
<td>Yong Liu</td>
<td>40</td>
<td>5:15 PM Thursday</td>
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<tr>
<td>Francisco Rios</td>
<td>11</td>
<td>2:30 PM Thursday</td>
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<tr>
<td>Bruna Visniauskas</td>
<td>73</td>
<td>8:00 AM Saturday</td>
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<tr>
<td>Yan Wang</td>
<td>101</td>
<td>5:00 PM Saturday</td>
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<tr>
<td>Chuanming Xu</td>
<td>96</td>
<td>3:45 PM Saturday</td>
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Hypertension Early Career Oral Award Session (*Hypertension Early Career Award Competition*)
*Sponsored by the Trainee Advocacy Committee of the Council on Hypertension, the British and Irish Hypertension Society, the Hypertension Journal and the International Society of Hypertension’s New Investigator Committee.*

<table>
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<tr>
<th>Name</th>
<th>Abstract/Presentation Number</th>
<th>Day/Time</th>
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<tbody>
<tr>
<td>Karen C. Clark</td>
<td>053</td>
<td>4:15 PM Friday</td>
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<tr>
<td>Jin Wei</td>
<td>054</td>
<td>4:30 PM Friday</td>
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<tr>
<td>Franco J. Puleo</td>
<td>055</td>
<td>4:45 PM Friday</td>
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<tr>
<td>Michael Z. Grzeskowiak</td>
<td>056</td>
<td>5:00 PM Friday</td>
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<tr>
<td>Farah Ammous</td>
<td>057</td>
<td>5:15 PM Friday</td>
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<tr>
<td>Giacomo Rossitto</td>
<td>058</td>
<td>5:30 PM Friday</td>
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AFHRE Travel Award for Patient-Oriented or Clinical Research in Hypertension
*Sponsored by the American Foundation for Hypertension Research and Education*

The Council on Hypertension supports the research efforts of its early career investigators engaged in clinical or patient-oriented research. This award encourages physician scientists and other investigators (PharmD, PhD, DO, etc.) to undertake or continue mechanistic patient-oriented or clinical hypertension research and to participate in the conference. The Council on Hypertension thanks the American Foundation for Hypertension Research and Education for their support of this award.

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<tr>
<th>Name</th>
<th>Abstract/Presentation Number</th>
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<tbody>
<tr>
<td>Svetlana Glova</td>
<td>P137</td>
<td>5:30 PM Thursday</td>
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<td>Stephen Juraschek</td>
<td>47</td>
<td>4:00 PM Friday</td>
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<tr>
<td>Keem Patel</td>
<td>P3050</td>
<td>1:30 PM Saturday</td>
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<tr>
<td>Shumin Rui</td>
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<td>2:15 PM Thursday</td>
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<td>Alexander Myint Swan</td>
<td>P117</td>
<td>5:30 PM Thursday</td>
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Clinical Science Investigator Award for Excellence in Translational or Clinical Hypertension Research
*Sponsored by the journal, Clinical Science (www.clinsci.org)*

This award recognizes an outstanding abstract submitted in the area of translational or clinical hypertension research.

Badhma Valaiyapathi, MBBS, MPH, University of Alabama at Birmingham, Birmingham, Alabama presents her abstract, “Amplification of Systolic Blood Pressure and Pulse Pressure is Higher in Resistant Hypertensive Patients Irrespective of Blood Pressure Control,” at 3:45 PM Saturday in Galerie 4 and 5.
Program Information

New Investigator Award for Japanese Fellows

The Council on Hypertension supports the efforts of its early career members as well as those located internationally. The New Investigator Award for Japanese Fellows will be presented to new investigators from Japan who will present their abstracts. The competition encourages new investigator from Japan to undertake or continue hypertension research.

Satoshi Shimada, MD, PhD. Department of Physiology, Medical College of Wisconsin
Daisuke Yamazaki, MD. Department of Pharmacology, Faculty of Medicine, Kagawa University
Tomohisa Yamashita, MD, PhD. Department of General Surgery, Wake Forest University School of Medicine

American Heart Association Awards 2019

Congratulations 2019 Distinguished Scientists:

Costantino Iadecola, MD, Weill Cornell Medicine, New York, New York
Suzanne Oparil, MD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama
Paul Whelton, MB, MD, MSc, Tulane University, New Orleans, Louisiana

Congratulations 2019 Louis B. Russell, Jr., Memorial Award:

Brent M. Egan, MD, FAHA, American Medical Association, Charleston, South Carolina

General Information

Registration

Conference registration is located in Preservation Hall at the Marriott New Orleans. Pre-registered attendees can pick up their conference badge here. Please inquire here if you need a ticket for any of the ticketed events. The Registration Desk opens at 2:00 PM Wednesday and closes at 11:30 AM Sunday.

Speaker Resource Room

The Speaker Resource Room is located in Regent. Speakers are asked to deliver their presentations on a USB drive to the Speaker Resource Room at least 12 hours before the beginning of the session in which they will speak. Those speaking on Thursday can visit the speaker ready room 2:00-7:00 PM Wednesday. This will allow you time to prepare, rehearse and finalize your presentation before submitting it. Speakers may review and revise their presentations before submission. It is imperative that you review your presentation in the Speaker Resource Room if it contains video files or if it was created on a Macintosh computer. Staff will be available to assist with technical issues. The Speaker Resource Room will be open:

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<th>Time</th>
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<td>Saturday</td>
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<td>6:30-11:30 AM</td>
<td>Sunday</td>
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Abstract Information

Abstract presentations 001-152 will be presented as oral presentations throughout the conference. Please note that orals with a box around them denotes a clinical oral presentation.

Abstracts P100-P199 and P1100-P1127 will be presented at the annual Trainee On-Site Poster Competition at 5:30-7:30 PM Thursday.

Abstracts P2001-P2074; P3001-P3063 will be presented as poster presentations during Poster Session II and Poster Session III.

Details on Poster Session I, II, and III can be found on page 42-43.
**Policy Information**

**ePosters**

*ePosters and QR Codes with Audio/Video*

We are excited to offer ePosters at Hypertension 2019 Scientific Sessions. Poster presenters were asked to upload an ePoster (electronic version of their poster) and record narration or add a video file. The QR code on the poster board allows attendees to view the ePoster and abstract through their smartphone, as well as listen to any recorded narration or videos the presenter may have provided. ePosters and abstracts can be viewed online at https://htn.apprisor.org.

**Continuing Medical Education Accreditation**

Please visit the Registration Desk for information on Continuing Medical Education Accreditation.

**Policy Information**

**Disclaimer**

The Hypertension 2019 Scientific Sessions is a scientific and educational conference for exchanging and discussing research results and scientific developments in the field of cardiovascular outcomes research. Accordingly, the American Heart Association cannot offer any assurance or warranty of the accuracy, truthfulness or originality of the information presented at the conference.

**AHA Harassment Policy**

The AHA requires that all attendees, exhibitors, presenters, contractors, vendor and volunteers of the AHA meeting comply with all federal, state and local laws and regulations, including those that prohibit harassment and discrimination against individuals based on their race, color, religion, sex, sexual orientation, gender identity or national origin.

**Embargo Guidelines**

Abstracts, lectures and presentations in HTN 2019 are embargoed for release at the time of presentation. Information may not be released before the scheduled presentation time.

**Photography/Recording Policy**

Unauthorized recording of the AHA Scientific Sessions, scientific conferences and the ASA International Stroke Conference is prohibited, whether by video, still or digital photography, audio or any other recording or reproduction mechanism. This includes recording of presentations and supporting audio-visual materials, poster presentations and supporting poster materials.

The American Heart Association and American Stroke Association reserve the rights to all recordings or reproductions of presentations at AHA/ASA scientific conferences and meetings. Check the program for information about the availability of videotapes or audiotapes for purchase. Exceptions to this policy prohibition are:

1. Non-flash photography of the speaker and his/her presentation materials is permitted by attendees or AHA/ASA accredited reports upon the prior written consent of the AHA/ASA and the speaker.
2. Audiotape recording for strictly personal and non-commercial use is permitted if not disruptive; and exhibitors may photograph their booth for promotional purposes upon prior written consent of the AHA/ASA.

**Conference Photography**

Please be aware that during Hypertension 2019, attendees, vendors and guests may be photographed and videotaped by AHA vendors. Some of these images may be displayed in publications or materials connected with the event. If you don’t want your image to be displayed by the AHA, please contact the AHA in writing at 7272 Greenville Avenue, Dallas, TX 75231, Attention: Manager, Scientific Conferences, Hypertension Scientific Sessions, no later than Sept. 30, 2019.

**No-Smoking Policy**

The AHA policy prohibits smoking in all conference meeting rooms and exhibits/registration areas. Thank you for your cooperation.

**Seating/Badge Requirement**

Seating is on a first-come, first-serve basis. According to fire code, a session must be closed if the room fills to capacity. You must wear your name badge at all times during the conference. Nonregistered guests may not be permitted into the sessions or food and beverage events. Be sure to remove your badge when you leave the conference or your hotel room.

The American Heart Association reserves the right to revoke or deny attendance to any registered participant, speaker, exhibitor, news media reporter, or photographer of presentations or activities at AHA/ASA scientific conferences and meetings.
Don’t miss next year’s conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20

Program Agenda

**THURSDAY, SEPTEMBER 5**

7:00 AM  
Registration, Exhibits and Refreshments  
Preservation Hall

7:50–8:00 AM  
Session 1.1  
Welcome and Opening Remarks  
Acadia

7:50  
Opening Remarks  
Curt Sigmund, PhD, FAHA, Chair, Fall Specialty Conference Planning Committee

7:55  
Welcome  
Karen Griffin, MD, FAHA, Chair, Council on Hypertension

8:00–9:00 AM  
Session 1.2  
Recent Advances in Hypertension: Keynote Lectures  
Acadia

Chairs:  
Karen Griffin, MD, FAHA, Hines VA Hospital, Hines, Illinois  
Professor Dame Anna F. Dominiczak, MD, FAHA, University of Glasgow, Glasgow, Scotland

8:00  
Blood Pressure Genomewide Studies at One Million  
Professor Mark Caulfield, MD, FRCP, FESC, FBHS, FMedSci, Genomics England & QMUL, London, United Kingdom

8:30  
Light in the Dark Genome for Hypertension Research  
Mingyu Liang, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin

9:00–10:00 AM  
Session 2  
Recent Advances: Debates  
Acadia

Chairs:  
Jan N. Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina  
Anthony Viera, MD, MPH, FAHA, Duke University, Durham, North Carolina

9:00  
Debate 1 (AMBULATORY): For Out-of-Office Blood Pressure Monitoring, is Ambulatory Blood Pressure Monitoring or Home (Self) Blood Pressure Monitoring the Best Approach?  
Raymond Townsend, MD, Pennsylvania School of Medicine, Philadelphia, Pennsylvania

9:10  
Debate 1 (HOME): For Out-of-Office Blood Pressure Monitoring, is Ambulatory Blood Pressure Monitoring or Home (Self) Blood Pressure Monitoring the Best Approach?  
Michael K. Rakotz, MD, FAHA, FAFP, American Medical Association, Chicago, Illinois

9:20  
Debate 1: Q&A

9:30  
Debate 2 (AUTOMATED): Should Automated Office Blood Pressure (AOBP) Measurement or an Auscultatory Measurement be the Primary Approach for the Screening of Hypertension in the Clinic?  
Martin Myers, MD, FRCPC, Sunnybrook Health Sciences Center, Toronto, Ontario, Canada

9:40  
Debate 2 (AUSCULTATORY): Should Automated Office Blood Pressure (AOBP) Measurement or an Auscultatory Measurement be the Primary Approach for the Screening of Hypertension in the Clinic?  
Paul K. Whelton, MD, MSc, Tulane University, New Orleans, Louisiana

9:50  
Debate 2: Q&A

10:00–10:30 AM  
Refreshment Break and Exhibits  
Preservation Hall

**THURSDAY**

10:30–11:10 AM  
Session 3  
Recent Advances: Relationship Between Metabolism and Blood Pressure  
Acadia

Chairs:  
Kamal Rahmouni, PhD, FAHA, University of Iowa, Iowa City, Iowa  
James Sowers, MD, University of Missouri, Columbia, Missouri

10:30  
Intersection of Metabolic and Blood Pressure Regulatory Circuits in the CNS  
Justin L. Grobe, PhD, FAHA, Medical College of Wisconsin, Milwaukee, WI

10:50  
Adiposity, Metabolism and Hypertension  
Vidy Kidambi, MD, Medical College of Wisconsin Milwaukee, Wisconsin

11:10 AM–Noon  
Session 4  
Recent Advances: Arterial Stiffness – Clinical Research to Mechanisms  
Acadia

Chairs:  
George L. Bakris, MD, MA, FASN, FAHA, University of Chicago Medicine, Chicago, Illinois  
Gary Pierce, PhD, FAHA, University of Iowa, Iowa City, Iowa
Program Agenda (continued)

11:10 Arterial Stiffness in Aging: Does it Have a Place in Clinical Practice?
Gary Mitchell, MD, Cardiovascular Engineering, Inc., Norwood, Massachusetts

11:35 The Role of the Cytoskeleton in Vascular Aging
Kathleen Morgan, PhD, Boston University, Boston, Massachusetts

Lunch on your own

1:30–3:00 PM Session 5 Concurrent A
Epidemiology of Hypertension and Atherosclerosis
Galerie 3

Chairs:
Daniel T. Lackland, DrPH, FAHA, Medical University of South Carolina, Mt Pleasant, South Carolina
Christian Delles, MD, FAHA, University of Glasgow, Glasgow, Scotland

Oral Abstract Presentations

1:30 Hypertension Control to Systolic Blood Pressure <140 and <130. Implications for Hypertension Guidelines and Performance Metrics Based on Sprint Pop Data
Brent M Egan, Susan E. Sutherland, Care Coordination Inst, Greenville, SC

1:45 Racial Disparities in Hypertension Among Young, Black and White Women, 1999-2014 National Health and Nutrition Examination Surveys
Anika L. Hines, Virginia Commonwealth Sch of Med, Richmond, VA; Roland J Thorpe Jr., Johns Hopkins Bloomberg Sch of Public Health, Baltimore, MD

2:00 Early and Late Post-Kidney Transplant Hypertension and Late Renal Allograft Outcome
Ekamol Tantisattamo, Div of Nephrology, Hypertension and Kidney Transplantation, Dept of Med, Univ of California Irvine Sch of Med, Orange, CA; Possawat Vuthikraivit, Phramongkutklao Coll of Med, Mahidol Univ, Bangkok, Thailand; Natnicha Leelavivat, Faculty of Med, Ramathibodi Hosp, Mahidol Univ, Bangkok, Thailand; Siroj Dejhapsathit, Phramongkutklao Coll of Med, Mahidol Univ, Bangkok, Thailand

2:15 Antihypertensive Treatment Stops Cognition Decline in Elderly Chinese With Hypertension
Shumin Rui, Chihua Li, L H Lumey, Columbia Univ, New York, NY

2:30 Intensity of Hypertensive Exposure in Young Adulthood and Subclinical Atherosclerosis in Middle Age
Zhenyu Xiong, Sun Yat-Sen Univ, Guangzhou, China; Jiaying Li, Nanfang Hosp of Southern Medical Univ, Guangzhou, China; Xiaodong Zhuang, Xinxue Liao, Sun Yat-Sen Univ, Guangzhou, China

2:45 Blood Pressure Categories and Newly Progressed Carotid Artery Plaques in a Prospective Cohort Study: The Suita Study
Yoshihiro Kokubo, Makoto Watanabe, Aya Higashiyama, Yoshihiro Miyamoto, Nati Cerebral and Cardiovasc Ctr, Suita, Osaka, Japan

1:30–3:00 PM Session 5 Concurrent B
Mechanisms Involving Aldosterone and Mineralocorticoid Receptors
Galerie 4 and 5

Chairs:
James M. Luther, MD, FAHA, Vanderbilt University Medical Center, Nashville, Tennessee
Augusto C. Montezano, PhD, FAHA, University of Glasgow, Glasgow, Scotland

Oral Abstract Presentations

1:30 Endothelial Mineralocorticoid Receptors are Increased by Pregnancy in Mice and Mediate Obesity-Associated, Leptin-Induced Endothelial Dysfunction in Pregnancy
Jessica L Faulkner, Simone Kennard, Augusta Univ, Augusta, GA; Iris Z Jaffe, Tufts Univ, Boston, MA; Eric J Belin de Chanterelle, Augusta Univ, Augusta, GA

1:45 Aldosterone Contributes to the Blood Pressure Elevation, Endothelial Dysfunction, and Norepinephrine Sensitivity Caused by Endothelial Human Endothelin-1 Overexpression in Mice
Olga Berillo, Nada Mahjoub, Suellen C Coelho, Ahmad Mahmoud, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Stefan Offermanns, Dept of Pharmacology, Max-Planck-Inst for Heart and Lung Res, Bad Nauheim, Germany; Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L Schiffrin, Lady Davis Inst for Medical Res, Jewish General Hosp, Montreal, QC, Canada

2:00 Endothelial Epithelial Sodium Channel Promotes Intrinsic Cardiomyocyte Stiffness and Diastolic Dysfunction in Response to a Diet Induced Obesity in Female Mice
Annayya Aroor, Vincent DeMarco, Guanghong Jia, Javad Habibi, Yang Yan, Camila Manrique, Guido Lastra, Chen Dongqing, Sun Zhe, Michael Hill, Adam Whaley-Connell, Frederic Jaisser, James Sowers, Univ of Missouri, Columbia, MO
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Abstract</th>
<th>Authors</th>
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<tr>
<td>2:15</td>
<td>Neutrophil Gelatinase Associated Lipocalin From Immune Cells is Involved in Renal Damages Induced by Mineralocorticoid Excess</td>
<td>Benjamin Bonnard, Ernesto Martínez-Martínez, Mathieu Buonafine, INSERM 1138, Paris, France; Jaime Ibarrola, Amaya Fernández-Celis, Natalia López-Andrés, Univ Pública de Navarra, Pamplona, Spain; Frederic Jaisser, INSERM 1138, Paris, France 10</td>
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<td>2:30</td>
<td>TRPM7 is Cardiovascular Protective in Aldosterone-Induced Hypertension</td>
<td>Francisco J Rios, ZhiGuo Zou, Katie Y Hood, Adam P Harvey, Karla B Neves, Sarah E Nichol, Livia L Camargo, Augusto C Montezano, Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom</td>
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<td>2:45</td>
<td>Regulation of Cardiomyocyte Fibrosis by a Negative Feedback Loop Between Aldosterone-Induced Osteopontin Up-Regulation and beta2-Adrenergic Receptor Signaling</td>
<td>Celina M Pollard, Victoria L Desimine, Shelby L Wertz, Arianna Perez, Barbara M Parker, Nova Southeastern Univ, Fort Lauderdale, FL; Jennifer Maring, Jackson Memorial Hosp, Miami, FL; Katie A McCrink, Massachusetts General Hosp, Boston, MA; Lina A Shehadeh, Univ of Miami, Miami, FL; Anastasios Lymeropoulos, Nova Southeastern Univ, Fort Lauderdale, FL</td>
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<td>1:30–3:00 PM</td>
<td>Session 5 Concurrent C Hypertension in Pregnancy and Offspring Galerie 6</td>
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<td>Chairs:</td>
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<td>Denise C. Cornelius, PhD, School of Medicine, University of Mississippi Medical Center, Jackson, Mississippi John Henry Dasinger, PhD, Augusta University, Augusta, Georgia</td>
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<td>Oral Abstract Presentations</td>
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<td>1:30</td>
<td>Racial Disparities in Maternal Hypertension and Pregnancy Outcomes a Population-Based Study</td>
<td>Chintan Bhatt, Anshul Saxena, Muni Rubens, Donna Armaignac, Joseph Salami, Sankalp Das, Emir Veledar, Baptist Health South Florida, Coral Gables, FL</td>
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<tr>
<td>1:45</td>
<td>Impact of Placental Ischemia on Hippocampal Asic2a and Glutamate Receptor Protein Expression in Mice</td>
<td>Maria A Jones-Muhammad, Rachael Thompson, Qingshe Shao, Junie P Warrington, Univ Mississippi Medical Ctr, Jackson, MS</td>
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3:00–3:30 PM
Refreshment Break and Exhibits
Preservation Hall

3:30–5:30 PM
Session 6 Concurrent A
Neuroimmune Mechanisms in Hypertension
Galerie 3
Chairs:
Giuseppe Lembo, MD, PhD, IRCCS Neuromed and Sapienza University of Rome, Italy
Stephanie W. Watts, PhD, FAHA, Dept of Pharmacology and Toxicology, Michigan State University, East Lansing Michigan

3:30 State of the Art Lecture: Hypertension and the Maladaptive Immune Response
Meena S. Madhur, MD, PhD, FAHA, FACC, Vanderbilt University Medical Center, Nashville, Tennessee

Oral Abstract Presentations
3:30 Gut Microbiome Governs Independent Risks for Hypertension Comorbid With Depression, Hypertension Without Depression, and Depression Without Hypertension in Human Subjects
Bruce R. Stevens, Carl Pepine, Mohan Raizada, Kim Seungbum, Elaine Richards, Univ of Florida, Gainesville, FL

4:00 PLGF VEGFB Neuropilin1 a Neuroimmune Mechanism Necessary for the Initiation of the Adaptive Immune Response Recruited by Angiotensin II to Induce Hypertension and Target Organ Damage
Dania Carnevale, Sapienza Univ and IRCCS Neuromed, Pozzilli, Italy; Daniele Iodice, IRCCS Neuromed, Pozzilli, Italy; Sara Perrotta, Sapienza Univ, Pozzilli, Italy; Lorenzo Carnevale, Roberta Iacobucci, IRCCS Neuromed, Pozzilli, Italy; Marialuisa Perrotta, Sapienza Univ, Pozzilli, Italy; Fabio Pallante, Giuseppe Cifelli, IRCCS Neuromed, Pozzilli, Italy; Giuseppe Lembo, Sapienza Univ and IRCCS Neuromed, Pozzilli, Italy

4:15 Single Cell Multiplex Mass Cytometry Reveals Differential Abundance of Specific Memory and Regulatory T Cell Populations in Human Hypertension
Matthew R Alexander, Vanderbilt Univ Medical Ctr, Nashville, TN; Bethany L Dale, Vanderbilt Univ Sch of Med, Nashville, TN; Fernando Elijovich, Vanderbilt Univ Medical Ctr, Nashville, TN; Cara E Wogsland, Univ of Bergen, Bergen, Norway; Jonathan M Irish, Vanderbilt Univ Sch of Med, Nashville, TN; Meena S Madhur, Vanderbilt Univ Medical Ctr, Nashville, TN

4:45 Role of Interleukin-17 in the Regulation of Hemodynamics and Renal Sympathetic Nerve Activity in Rats
Yiling Cao, Yang Yu, Ye Wang, Robert B Felder, Shun-Guang Wei, Univ of Iowa Carver Coll of Med, Iowa City, IA

5:00 γδ T Cells Mediate αβ T Cell Activation in Angiotensin II-Induced Hypertension
Antoine Caillon, Pierre Paradis, Ernesto L Schiffrin, McGill Univ, Montreal, QC, Canada

5:15 Melatonin Abolishes Renal Infiltration of T Lymphocytes in a High Salt Diet Induced Hypertension Model
Ariel Bier, Rawan Khashab, Ehud Grossman, Avshalom Liebowitz, Chaim Sheba Medical Ctr, Ramat Gan, Israel
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<th>Time</th>
<th>Session Title</th>
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<tr>
<td>4:15</td>
<td><strong>Remote Health Monitoring Platform</strong> Reduces Blood Pressure and Crisis</td>
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<td>Hypertension</td>
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<td>Nirav Shah, Clifford Fonner, Noah Manders, Rama Aysola, Sarah Sutton, Jorge</td>
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<td>Sanchez, Sentinel Healthcare, Seattle, WA</td>
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<td>4:30</td>
<td><strong>Antihypertensive Treatment and Short-Term Blood Pressure Variability</strong></td>
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<td>Alejandro De La Sierra, Hosp Mutua Terrassa, Terrassa, Spain; Jose R Banegas,</td>
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<td>Juan J de la Cruz, Univ Autonoma, Madrid, Spain; Manuel Gorostidi, Hosp</td>
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<td>Central Asturias, Oviedo, Spain; Ernest Vinyoles, Cap la Mina, Barcelona,</td>
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<td>Spain; Julian Segura, Hosp 12 Octubre, Madrid, Spain; Luis M Ruijope, Hosp 12</td>
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<td>octubre, Madrid, Spain</td>
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<td>4:45</td>
<td>**Low Indoleamine 2,3 Dioxygenase Activity in Pregnancy are Associated With</td>
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<td>Increased Carotid-Femoral Pulse Wave Velocity in Preeclampsia**</td>
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<td>Mark K Santillan, Case R Meincke, Sabrina M Scroggins, Alexandria M Betz,</td>
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<td>Debra S Brandt, Amy K Stroud, Donna A Santillan, Gary L Pierce, Univ of Iowa,</td>
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<td>Iowa City, IA</td>
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<td>5:00</td>
<td><strong>Association Between Non-Oral Hormonal Contraceptives and Blood Pressure: A</strong></td>
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<td>Systematic Review</td>
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<td>Cindy Z Kalenga, Amy Metcalf, Sofia B Ahmed, Ramesh Sharanya, Jennifer M</td>
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<td>MacRae, Kara Nerenberg, Darlene Y Sola, Sandi Dumasinski, Univ of Calgary,</td>
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<td>Calgary, Calgary, AB, Canada</td>
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<td>5:15</td>
<td><strong>A Pilot Study of Antihypertensive Medication Adherence Trends by Sex and</strong></td>
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<td>Carl J Pepine, Univ of Florida, Gainesville, FL</td>
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**Session 6 Concurrent C**

**Genetics and Epigenetics in Hypertension**

**Galerie 6**

**Chairs:**

- Olga Berillo, PhD, FAHA, Lady Davis Institute, Montreal, Quebec
- Anne E. Kwitek, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin

**Oral Abstract Presentations**

<table>
<thead>
<tr>
<th>Time</th>
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<td><strong>Genetic Polymorphisms Associated With Apparent Treatment-Resistant Hypertension</strong></td>
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<td>in Patients With Chronic Kidney Disease</td>
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<td></td>
<td>Ling Wang, Kevin Pezeshkian, Donna Wang, Michigan State Univ, East Lasing, MI</td>
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<td>3:45</td>
<td><strong>Differential Regulation of Renal Injury in Npr1 Gene-Targeted Male and Female Mice:</strong></td>
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<td>Role of Class I-Specific HDAC Inhibitor</td>
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<td>Prerna Kumar, Kailash N. Pandey, Dept of Physiology, Tulane Univ Health Sciences Ctr</td>
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<td>and Sch of Med, New Orleans, LA</td>
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<td>4:00</td>
<td><strong>Unique Associations of DNA Methylation With 24-Hour Blood Pressure Phenotypes</strong></td>
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<td>in African Americans</td>
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<td>Sridivya Kidambi, Xiaojing Pan, Yingchuan Li, Michelle Roberts, Chun Yang, Pengyuan Liu</td>
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<td>Tao Wang, Purushottam Laud, Thomas Chelius, Yannick Munyura, David Mattson, Yong Liu,</td>
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<td>Allen Cowley, Theodore Kotchen, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI</td>
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<td>4:15</td>
<td><strong>Genetics and Epigenetics on Circadian Blood Pressure and Variability in Rats</strong></td>
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<td>Compared With Ambulatory Blood Pressure Variability in Humans</td>
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<td>Mary S Lee, Northwestern U Feinberg Sch of Med, Chicago, IL; John S Lee, Princeton</td>
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<td>Univ, Princeton, NJ; Jong Y Lee, Silvia H Azar, Franz Halberg, Univ of MN Sch of Med,</td>
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<td>Minneapolis, MN</td>
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<td>4:30</td>
<td><strong>Monogenic Hypertension Associated With a Pathogenic STX16 Mutation</strong></td>
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<td>4:45</td>
<td><strong>The Arg16 / Gln27 Diplotype of the Beta-2 Adrenergic Receptor: Cardiovascular Insights</strong></td>
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<td>from a Novel Transgenic Mouse Model</td>
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<td>Thinian Tresaranuwattana, Stephen Maris, Amanda E. Garza, Danielle Brooks, Luminhita</td>
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<td>P. Pojoga, Brigham and Women’s Hosp, Boston, MA</td>
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<td>5:00</td>
<td><strong>The PDE3A Gene Regulates Blood Pressure</strong></td>
<td>39</td>
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<td>Friedrich C Luft, Experimental and Clinical Res, Berlin, Germany; Maria Ercu, Max-Delbrück Ctr for Molecular Med, Berlin, Germany; Carolin Schächterle, Lajos Marko, Experimental and Clinical Res, Berlin, Germany; Philipp Maass, SickKids Res Institute, Toronto, ON, Canada; Kerstin Zühlke, Max-Delbrück Ctr for Molecular Med, Berlin, Germany; Alexa M Kidd, Canterbury Health Labs, Christchurch, New Zealand; Nerine Gregersen, Auckland District Health Board, Auckland, New Zealand; Norbert Hüblner, Russell Hodge, Max-Delbrück Ctr for Molecular Med, Berlin, Germany; Rosana Molé Illas, Experimental and Clinical Res, Berlin, Germany; Stephan Walter, Abteilung für Nephrologie / Hypertensiologie, St. Vincent Krankenhaus, Limburg, Germany; Robert Preissner, Experimental and Clinical Res, Berlin, Germany; Arnd Heuser, Max-Delbrück Ctr for Molecular Med, Berlin, Germany; Yoland-Marie Anistan, Dmitry Tsvetkov, Experimental and Clinical Res, Berlin, Germany; Mihail Todiras, Elena Popova, Sofia Forslund, Max-Delbrück Ctr for Molecular Med, Berlin, Germany</td>
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for Molecular Med, Berlin, Germany; Dominik N Müller, Maik Gollasch, Experimental and Clinical Res, Berlin, Germany; Atakan Aydin, Max-Delbrück Ctr for Molecular Med, Berlin, Germany; Sylvia Bähring, Experimental and Clinical Res, Berlin, Germany; Michael Bader, Enno Klussmann, Max-Delbrück Ctr for Molecular Med, Berlin, Germany

5:15 Comparative Genomic Analysis and Functional Insights for Blood Pressure-Associated Single Nucleotide Polymorphisms
Yong Liu, Manoj Mishra, Eugene Liang, Aron Geurts, Medical Coll of Wisconsin, Milwaukee, WI; Paul W. Auer, Univ of Wisconsin-Milwaukee, Milwaukee, WI; Pengyuan Liu, Medical Coll of Wisconsin, Milwaukee, WI; Sridhar Rao, Blood Res Inst, Milwaukee, WI; Andrew Greene, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

3:30–5:30 PM
Session 6 Concurrent D
Clinical Practice Clinical Science Track: Debates
Galerie 1 and 2
Chairs:
Vivek Bhalla, MD, Stanford University, Palo Alto, California
Susan Steigerwalt, MD, FAHA, University of Michigan, Detroit, Michigan

Debate: The Evidence for the Universal BP Goal of < 130/80 mm Hg Is Strong
3:30 Against
Sanjay Kaul, MD, FACC, FAHA, Cedars Sanai Medical Center, Los Angeles, California
3:50 For
Robert M. Carey, MD, FAHA, University of Virginia, Charlottesville, Virginia
4:10 Rebuttal (Dr Kaul)
4:15 Rebuttal (Dr Carey)
4:20 Panel and Q&A Dr Kaul and Dr Carey

Debate: It Matters Which Drug Is Given First for Hypertension Without Compelling Indications
4:30 For
Paul Whelton, MD, MSc, Tulane University, New Orleans, Louisiana
4:50 Against
Professor Bryan Williams, University College London, London, United Kingdom
5:10 Rebuttal (Dr Whelton)
5:15 Rebuttal (Dr Williams)
5:20 Panel and Q&A Dr Whelton and Dr Williams

8:00 Genetic Mechanisms Regulating the Microbiome
Matam Vijay-Kumar, PhD, University of Toledo, Toledo, Ohio
8:30 Nutrition and the Microbiome
Katie A Meyer, ScD, University of North Carolina, Kannapolis, North Carolina

9:00–10:00 AM
Session 8
Recent Advances: Chronotherapy and Circadian Rhythms in Hypertension
Acadia
Chairs:
David Fulton, PhD, Medical College of Georgia, Augusta, Georgia
David M. Pollock, PhD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama

9:00 Circadian Rhythms, Clock Genes, and Hypertension
Michelle L Gumz, PhD, University of Florida, Gainesville, Florida
9:30 Chronotherapy in the Treatment of Hypertension: Where do we Stand?
Mahboob Rahman, MD, Case Western Reserve University, Cleveland, Ohio

10:00–10:30 AM
Refreshment Break and Exhibits
Preservation Hall

7:00 AM
Registration, Exhibits, and Refreshments
Preservation Hall

8:00–9:00 AM
Session 7
Recent Advances: Microbiome
Acadia
Chairs:
Dominik N. Mueller, PhD, Max-Delbrück Center and Clinical Experimental Research Center, Berlin, Germany
Jennifer M. Sasser, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi

9:00 Genetic Mechanisms Regulating the Microbiome
Matam Vijay-Kumar, PhD, University of Toledo, Toledo, Ohio
8:30 Nutrition and the Microbiome
Katie A Meyer, ScD, University of North Carolina, Kannapolis, North Carolina

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Michelle L Gumz, PhD, University of Florida, Gainesville, Florida
9:30 Chronotherapy in the Treatment of Hypertension: Where do we Stand?
Mahboob Rahman, MD, Case Western Reserve University, Cleveland, Ohio

10:00–10:30 AM
Refreshment Break and Exhibits
Preservation Hall

THURSDAY/FRIDAY
Program Agenda (continued)

10:30 am–Noon
Session 9
Recent Advances:
Neurogenic Hypertension: Brain, Heart, Kidney
Acadia

Chairs:
Eric D. Lazartigues, PhD, FAHA, School of Medicine,
Louisiana State University Health Sciences Center,
New Orleans, Louisiana
Murray Esler MBBS, PhD, FAA, Baker Heart
and Diabetes Institute, Melbourne Australia

10:30 Neuronal Networks in Hypertension
Patrice G. Guyenet, PhD, University of Virginia,
Charlottesville, Virginia

11:00 Is the Kidney the Right Target to Interrupt the SNS in Hypertension?
John W. Osborn, PhD, FAHA, University of Minnesota,
Minneapolis, Minnesota

11:30 Role of the Heart in Blood Pressure Lowering During Chronic Baroreflex Activation
Thomas E. Lohmeier, PhD, FAHA, Dept. of Physiology, University of Mississippi Medical Center,
Jackson, Mississippi

Noon–1:30 PM
Lunch on Your Own

1:30–3:00 PM
Poster Session II
Preservation Hall

Details on all poster sessions can be found on pages 42–43.

1:30–3:00 PM
Session 10
Primary Care Track: 2019 AHA Scientific Statement:
Measurement of Blood Pressure in Humans
Galerie 1 and 2

Chair:
Jan Basile, MD, FAHA Medical University of South Carolina, Charleston, South Carolina

1:30 Welcome and Introduction to Primary Care Symposia: Goals and Objectives
Michael J. Bloch, MD, FACP, FASH, FSVM, FNLA, FAHA, Blue Spruce Medical Consultants, Reno, Nevada

1:35 General Overview and Purpose of the Scientific Statement
Daichi Shimbo, MD, Columbia University, New York, New York

1:47 Office Blood Pressure Measurement: Auscultatory, Oscillometric and Automated
Jackson T. Wright, MD, PHD, FACP, FASH, FAHA, Case Western Reserve University, Cleveland, Ohio

1:59 Home BP Measurement: How Can We Improve Accuracy and Reproducibility
Gbenga Ogedegbe, MD, MPH, FAHA, NYU School of Medicine, New York, New York

2:11 Ambulatory BP Measurement: Can We Put it Into Practice
Anthony Viera, MD, MPH, FAHA, Duke University, Durham, North Carolina

2:23 Measurement of Blood Pressure, In and Out of the Office in Pediatrics and Adolescents
Joshua Samuels, MD, MPH, FAAP, FAHA, McGovern Medical School at UTHealth, Houston, Texas

2:35 Panel – Putting It All Together - Implementation and Reimbursement
Panelists:
Michael J. Bloch, MD, FACP, FASH, FSVM, FNLA, FAHA, Blue Spruce Medical Consultants, Reno, Nevada
Daichi Shimbo, MD, Columbia University, New York, New York
Jackson T. Wright, MD, PHD, FACP, FASH, FAHA, Case Western Reserve University, Cleveland, Ohio
Gbenga Ogedegbe, MD, MPH, FAHA, NYU School of Medicine, New York, New York
Anthony Viera, MD, MPH, FAHA, Duke University, Durham, North Carolina
Joshua Samuels, MD, MPH, FAAP, FAHA, McGovern Medical School at UTHealth, Houston, Texas
Steven A. Yarows, MD, FAHA, University of Michigan Health System, Chelsea, Michigan

3:00–3:30 PM
Refreshment Break and Exhibits
Preservation Hall

3:30–4:00 PM
Session 11
The Arthur C. Corcoran Memorial Lecture
Acadia

3:30 The Enigmatic Vascular NOX, From Artifact to Double Agent of Change
Patrick J Pagano, PhD, FAHA, University of Pittsburgh, Pittsburgh, Pennsylvania
4:00–5:30 PM  
Session 11 Concurrent A  
Chemoreceptor and Autonomic Mechanisms  
Galerie 3  

Chairs:  
Colin N. Young, PhD, George Washington University School of Medicine and Health Sciences, Washington, DC  
Yumei Feng Earley, MD, PhD, FAHA, University of Nevada Reno, Reno, Nevada  

Oral Abstract Presentations  

4:00  
Hypoxic Peripheral Chemoreceptor Activation Engages Sympathetic Brainstem and Hypothalamic Nuclei in Human Subjects  
Darius Andreas Gerlach, German Aerospace Ctr, Cologne, Germany; Jorge Manuel, Hannover Medical Sch, Hannover, Germany; Alex Hoff, Hendrik Kronsbein, Fabian Hoffmann, Karsten Heusser, German Aerospace Ctr, Cologne, Germany; André Diedrich, Vanderbilt Univ, Nashville, TN; Heimo Ehmke, Univ Medical Ctr Eppendorf, Hamburg, Germany; Jens Jordan, Jens Tank, German Aerospace Ctr, Cologne, Germany; Florian Beissner, Hannover Medical Sch, Hannover, Germany  

4:15  
Carotid Body Ablation of TRPV1 Reduces Chemoreflex Sensitivity in Rats With Heart Failure  
Sharon Db de Morais, Irving H Zucker, Harold D Schultz, Univ of Nebraska Medical Ctr, Omaha, NE  

4:30  
Local Passive Heat in the Treatment of Nocturnal Supine Hypertension in Autonomic Failure  
Luis E Okamoto, Jorge E Celedonio, Emily C Smith, Alfredo Gamboa, Cyndya A Shibao, Andre Diedrich, Sachin Paranjape, Bonnie K Black, James A Muldowney 3rd, Amanda C Peltier, Ralf Habermann, Vanderbilt Univ Medical Ctr, Nashville, TN; Craig G Crandall, Inst for Exercise and Environmental Med, Dallas, TX; Italo Biaggioni, Vanderbilt Univ Medical Ctr, Nashville, TN  

4:45  
High Sodium Intake Impairs Afferent Sympathodrepressory Pathways in Rats  
Kristina Rodionova, Tilmann Ditting, Univ of Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany; Franziska Fahrmeier, Sonja Loosen, Univ of Erlangen, Erlangen, Germany; Christian Ott, Univ of Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany; Roland Schmieder, Mario Schiffer, Kerstin Aman, Univ of Erlangen, Erlangen, Germany; Roland Veelken, Univ of Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany  

5:00  
Attenuated Natriuretic Response to Saline Loading in Sheep With Hypertensive Kidney Disease Following Radiofrequency Catheter-Based Renal Denervation  
Kate M Denton, Zoe McCardle, Harshil Singh, Monash Univ, Clayton, Australia; Lindsey Booth, Clive May, The Florey Inst of Neuroscience and Mental Health, The Univ of Melbourne, Parkville, Australia; Geoffrey Head, Baker IDI Heart and Diabetes Inst, Prahan, Australia; Karen Moritz, The Univ of Queensland, Brisbane, Brisbane, Australia; Markus Schlaich, Univ of Western Australia, Perth, Australia; Reetu Singh, Monash Univ, Clayton, Australia  

5:15  
Chronic Nicotine Inhalation Promotes the Development of Hypertension  
Jiaxi Xu, Tamara M Morris, Joshua M Oakes, Jason D Gardner, Xinping Yue, Eric Lazartigues, Louisiana State Univ Health Sciences Ctr, New Orleans, LA  

4:00–5:30 PM  
Session 11 Concurrent B  
Cerebrovascular Disease and Stroke  
Galerie 4 and 5  

Chairs:  
Fan Fan, MD, MS, FAHA, University of Mississippi Medical Center, Jackson, Mississippi  
Rhian M. Touyz, MBBCh, PhD, FMedSci, FAHA, University of Glasgow, Glasgow, Scotland  

Oral Abstract Presentations  

4:00  
Mode of Orthostatic Hypotension Assessment and Dizziness in Older Adults  
Stephen P Juraschek, BIDMC-Harvard Medical Sch, Boston, MA; Edgar R Miller III, Erin D Michos, Lawrence J Appel, Johns Hopkins Univ, Baltimore, MD  

4:15  
Association of Central Arterial Stiffness With Hippocampal Blood Flow, N-Acetyl Aspartate and Anxiety in Hypertensive Dahl Salt Sensitive Rats  
Samuel Ajamu, Rachel Fenner, Yulia Grigorova, Mustapha Bouhrara, Edward Lakatta, Richard Spencer, Kenneth Fishbein, Olga Fedorova, Natl Inst on Aging, Baltimore, MD  

4:30  
Intracranial Atherosclerosis and Stage 1 Hypertension Defined by the 2017 ACC and AHA Guideline  
Hyung-Min Kwon, Ki-Woong Nam, Jin-Ho Park, Seoul Natl Univ, Seoul, Korea, Republic of
Program Agenda (continued)

4:45 Essential Role of Cerebral Endothelial AT1 Receptors in the Blood-Brain Barrier Disruption Induced by Angiotensin-II Hypertension
Monica M Santisteban, Sung Ji Ahn, Diane Lane, Giuseppe Faraco, Lidia Garcia-Bonilla, Gianfranco Racchumi, Steven Segarra, Samantha Schaeffer, Carrie Poon, Ziasmin Shahanoor, Virginia Cipollini, Josef Anrather, Costantino Iadecola, Weil Cornell Medical Coll, New York, NY

5:00 Oral Antihyperglycemic Therapy With a SGLT2 Inhibitor Reverses Cognitive Impairments in Elderly Diabetics
Shaoxun Wang, Fan Fan, Univ of MS Medical Ctr, Jackson, MS

4:00–5:30 pm
Session 11 Concurrent C Hypertension Early Career Oral Awards
Galerie 6

Chairs:
Christian Delles, MD, FAHA, University of Glasgow, Glasgow, Scotland
Francine Marques, PhD, Monash University, Melbourne, Australia

Oral Abstract Presentations

4:00 Gene Editing Yields a Novel Rat Model of Cardiometabolic Disease
Karen C Clark, Medical Coll of Wisconsin, Milwaukee, WI; Valerie A Wagner, Jacob A Malek, Alyssa A Arroyo, Justin L Grobe, Univ of Iowa, Iowa City, IA; Anne E Kwitko, Medical Coll of Wisconsin, Milwaukee, WI

4:15 High Protein Diet-Induced Glomerular Hyperfiltration is Dependent on NOS1α
Jin Wei, Jie Zhang, Jian Shan, Erik Persson, Ruisheng Liu, Univ of South Florida, Tampa, FL

4:30 Sex Differences in the Development of Age-Dependent Hypertension and the Salt Sensitivity of Blood Pressure
Franco J Puleo, Alissa A Frame, Parul Chaudhary, Richard D Wainford, Boston Univ Sch Med, Boston, MA

4:45 Racial Differences in Length of Stay and Hospital Expenses in Hypertension and Pregnancy
Michael Z Grzeskowiak, Navid Berenji, Son Pham, Rene Oliveros, Univ of Texas Health Science Ctr at San Antonio, San Antonio, TX

5:00 Epigenome Wide Association Study Identifies DNA Methylation Sites Associated With Target Organ Damage in Elderly African Americans
Farah Ammous, Wei Zhao, Scott M Ratliff, Univ of Michigan, Ann Arbor, MI; Thomas H Mosley, Univ of Mississippi Medical Ctr, Jackson, MS; Sharon L Kardia, Xiang Zhou, Jennifer A Smith, Univ of Michigan, Ann Arbor, MI

3:30–5:30 pm
Session 11 Concurrent D Primary Care Track: Blood Pressure Management in Women
Galerie 1 and 2

Chairs:
Suzanne Oparil, MD, FACC, FAHA, FASH, FAPS, University of Alabama at Birmingham, Birmingham, Alabama
Shawna Nesbitt, MD, MS, University of Texas Southwestern Medical Center, Dallas, Texas

3:30 Should Biological Differences in Sex Influence BP Thresholds for Treatment and Choice of Antihypertensives in Chronic Hypertension?
Sandra J. Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota
3:50 **Incidence and Prognosis of White Coat Hypertension in Women**  
Jordana Cohen, MD, MSCE, University of Pennsylvania, Philadelphia, Pennsylvania

4:10 **Management of Hypertension in Women Contemplating Pregnancy and during the First Trimester**  
Mark K. Santillan, MD, PhD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa

4:30 **Management of Hypertension During Pregnancy and in the Fourth Trimester and Managing Future Cardiovascular Risk**  
Natalie Bello, MD, MPH, Columbia University, New York, New York

4:50 **Panel and Q&A**

5:30–6:45 PM  
**Session 12 Awards Session**  
Acadia

Chairs:  
Karen A. Griffin, MD, FAHA, Hines VA Hospital, Hines, Illinois  
Curt D. Sigmund, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin

5:30 **Hypertension 2019 Mid-Career Award for Research Excellence: Neuroimmune Interactions in Hypertension**  
Daniela Carnevale, PhD, FAHA, Sapienza University of Rome, Pozzilli, Italy

5:45 **The Harry Goldblatt Award for New Investigators: Targeting the Gut Microbiome to Lower Blood Pressure**  
Francine Marques, PhD, Hypertension Research Group, Monash University School of Biological Sciences, Melbourne, Australia

6:00 **British and Irish Hypertension Society Young Investigator Award: Association Between Hypertensive Disorders of Pregnancy and Later Risk of Cardiovascular Outcomes**  
Dr. Clare Oliver-Williams, University of Cambridge, Cambridge, United Kingdom

6:15 **High Blood Pressure Research Council of Australia Award: Targeting the NLRP3 Inflammasome for the Treatment of Pulmonary Hypertension**  
Tara Elizabeth Scott, BSc (Hons), Monash University, Clayton, Victoria, Australia

6:30 **The Stephane Watts Career Development Award Finalist Presentations:**

6:30 **Involvement of Subfornical Organ Insulin Receptor Signaling in the Development of Angiotensin-II Hypertension**  
Jin Kwon Jeong, PhD, George Washington University, Washington, DC

6:35 **Inhibition of Progesterone Induced Blocking**

6:40 **Leptin Restores Endothelial Function, Diminishes Vascular Adrenergic Contractility, but Does Not Alter Arterial Stiffness and Blood Pressure, in a Mouse Model of Congenital Generalized Lipodystrophy**  
Thiago Bruder do Nascimento, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania

7:00–11:00 PM  
**Trainee Advocacy Mixer**  
Riverview 2

**SATURDAY, SEPTEMBER 7**

7:00 AM  
**Registration, Exhibits and Refreshments**  
Preservation Hall

7:30–9:00 AM  
**Session 13 Concurrent A**  
Nutrition, Salt and Hypertension  
Galerie 3

Chairs:  
Steven D. Crowley, MD, Duke University Medical Center, Durham, North Carolina  
Alicia A. McDonough, PhD, FAHA, USC Keck School of Medicine, Los Angeles, California

**Oral Abstract Presentations**

7:30 **Deficiency of Either Prebiotic Dietary Fibre or Prebiotic-Responsive Gut Microbiota Result in High Blood Pressure**  
Francine Marques, Monash Univ, Melbourne, Australia; Waled Shihata, Baker Heart and Diabetes Inst, Melbourne, Australia; Hamdi Jama, Kirill Tsyganov, Monash Univ, Melbourne, Australia; Mark Ziemann, Deakin Univ, Melbourne, Australia; Helen Kiriazis, Duncan Horlock, Beverly Giam, Baker Heart and Diabetes Inst, Melbourne, Australia; Antony Vinh, LaTrobe Univ, Melbourne, Australia; Chad Johnson, Monash Univ, Melbourne, Australia; April Fiedler, Daniel Donner, Baker Heart and Diabetes Inst, Melbourne, Australia; Matthew Snelson, Monash Univ, Melbourne, Australia; Sarah Phillips, Swinburne Univ of Technology, Melbourne, Australia; Xiao-Jun Du, LaTrobe Univ, Melbourne, Australia; Charles Mackay, Monash Univ, Melbourne, Australia; David Kaye, Baker Heart and Diabetes Inst, Melbourne, Australia
**Program Agenda** (continued)

7:45  
**Increased Urinary Potassium Excretion Does Not Associate With Reduced Systolic Blood Pressure in the Dietary Approaches to Stop Hypertension Sodium Trial**  
Parul Chaudhary, Richard D Wainford, Boston Univ Sch Med, Boston, MA

8:00  
**Systolic Blood Pressure is Maintained Despite Varying Degrees of Acute Caloric Restriction and Sodium-Glucose Cotransporter-2 Inhibition in Obese, Insulin Resistant Rats**  
Manuel A Cornejo, Univ of California, Merced, Merced, CA; Daisuke Nakano, Akira Nishiyama, Kagawa Univ, Takamatsu, Japan; Rudy M Ortiz, Univ of California, Merced, Merced, CA

8:15  
**Elevated Cerebrospinal Fluid Sodium Concentration in Hypertensive Humans**  
Lucas Ac Souza, Fatima Trebak, Depts of Pharmacology and Physiology & Cell Biology, Univ of Nevada, Reno, Sch of Med, Reno, NV, USA. / Ctr for Molecular and Cellular Signaling in the Cardiovascular System, Univ of Nevada, Reno, NV, USA., Reno, NV, Veena Kumar, Dept of Neurology, Emory Univ Sch of Med, Atlanta, GA, USA., Atlanta, GA.; Ryousuke Satou, Dept of Physiology, Tulane Univ Sch of Med, New Orleans, LA, USA., New Orleans, LA.; Patrick G. Keohoe, Inst of Clinical Neurosciences, Univ of Bristol, Bristol, UK., Bristol, United Kingdom; Wei Yang, Univ of Nevada, Reno, Sch of Community Health Sciences, Reno, Nevada, USA., Reno, NV, Whitney Wharton, Dept of Neurology, Emory Univ Sch of Med, Atlanta, GA, USA., Atlanta, GA.; Yumei Feng, Depts of Pharmacology and Physiology & Cell Biology, Univ of Nevada, Reno, Sch of Med, Reno, NV, USA. / Ctr for Molecular and Cellular Signaling in the Cardiovascular System, Univ of Nevada, Reno, NV, USA., Reno, NV

8:30  
**Evaluation of a Combination Therapy of Bone Marrow-Derived Stem Cells and Serelaxin Against Established Renal Fibrosis in Normotensive and Hypertensive Models of Disease**  
Chrishan S Samuel, Jordan Nguyen, Yifang Li, Matthew Shen, Dorota Ferens, Anita A Pinar, Sharon D. Ricardo, Monash Univ, Clayton, Australia

8:45  
**Left Ventricular Mass Reduction Induced by Low Sodium Diet in Treated Hypertensive Patients**  
Natale Musso, Andrea Dotto, Zhongyi Shen, Ospedale Policlinico San Martino, Genova, Italy

7:30–9:00 AM  
Session 13 Concurrent B Vascular Biology and Function **Galerie 4 and 5**

Chairs:  
Karla B. Neves, PhD, BHF Glasgow Cardiovascular Research Centre, University of Glasgow, United Kingdom  
Adam C. Straub, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania

**Oral Abstract Presentations**

7:30  
**Endothelial CULLIN3 Mutation Causes Vascular Dysfunction, Arterial Stiffening, and Hypertension**  
Jing Wu, Shi Fang, Medical Coll of Wisconsin, Milwaukee, WI; Chunyan Hu, Univ of Utah, Salt Lake City, UT; Adokole J J Otanwa, Anand R Nair, Larry N Agbor, The Univ of Iowa, Iowa City, IA; Ko-Ting Lu, Medical Coll of Wisconsin, Milwaukee, WI; Masashi Mukohda, The Univ of Iowa, Iowa City, IA; Curr D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI

7:45  
**Beta-Hydroxybutyrate Synthesis Contributes to the Anti-Vascular Aging Effect of Autophagy**  
Cameron G Mccarthy, Saroj Chakraborty, Zachary Schreckenberger, Camilla F Wenceslau, Bina Joe, Univ of Toledo, Toledo, OH

8:00  
**Endothelial mTORC1 Signaling Regulates Angiotensin II Actions**  
John J Reho, Deng-Fu Guo, Kamal Rahmouni, Univ Iowa, Iowa City, IA

8:15  
**Interplay Between Nox5 and Endoplasmic Reticulum Stress Regulates Vascular Signalling in Human Hypertension**  
Livia L Camargo, Augusto C Montezano, Yu Wang, Univ of Glasgow, Glasgow, United Kingdom; Misbah Hussain, Fazli R Awan, Natl Inst for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan; Francisco J Rios, Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom

8:30  
**Local and Circulating Sphingosine-1-Phosphate in Blood Pressure Regulation**  
Ilaria Del Gaudio, Luisa Rubinielli, Weill Cornell Med, New York, NY; Susan Schwab, New York Univ, New York, NY; Christian Wadsack, Medical Univ of Graz, Graz, Austria, Austria; Annarita Di Lorenzo, Weill Cornell Med, New York, NY

8:45  
**The Prostaglandin Ep4 Receptor in Endothelium Modulates eNos Expression and Aortic Integrity**  
Ting Yang, Matthew A Sparks, Duke Univ, Durham, NC; Beverly H Koller, Univ of North Carolina Chapel Hill, Chapel Hill, NC; Thomas M Coffman, Duke Univ, Durham, NC
### Program Agenda (continued)

**7:30–9:00 AM**

**Session 13 Concurrent C**

**Gender Differences and Sex Hormones**

*Galerie 6*

**Chairs:**

Jorge F. Giani, PhD, Cedars-Sinai Medical Center, Los Angeles, California
Sarah H. Lindsey, PhD, FAHA, Tulane University, New Orleans, Louisiana

**Oral Abstract Presentations**

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>7:30</td>
<td>Endothelin-1 Contributes to Vascular Dysfunction in Peri-Menopausal Women</td>
<td>Megan M Wenner, Univ of Delaware, Newark, DE; Kerrie L Moreau, Univ of Colorado Anschutz Medical Campus, Denver, CO</td>
</tr>
<tr>
<td>7:45</td>
<td>Medroxyprogesterone Prevents the Decline in Renal Health Due to Estradiol</td>
<td>Margaret Zimmerman, Benard Ogola, Sarah Lindsey, Tulane Univ, New Orleans, LA</td>
</tr>
<tr>
<td>8:15</td>
<td>Vascular Dysfunction in Boys With Androgen Insufficiency – Role of Nox5 and Calcium</td>
<td>Angela Lucas-Herald, Rhueire Alves-Lopes, Laura Haddow, Univ of Glasgow, Glasgow, United Kingdom; Stuart O’Toole, S Basith Amjad, Martyn Flett, Boma Lee, Mairi Steven, Royal Hosp for Children, Glasgow, United Kingdom; Antoniya Pashova, Augusto Montezano, S Faisal Ahmed, Rhian Touyz, Univ of Glasgow, Glasgow, United Kingdom</td>
</tr>
<tr>
<td>8:30</td>
<td>Sex Differences in the Development of Autoimmune-Associated Hypertension</td>
<td>Keisa W Mathis, Cassandra Young-Stubbs, Jessica Morales, Univ of North Texas Health Sc, Fort Worth, TX</td>
</tr>
<tr>
<td>8:45</td>
<td>Sex Difference in the Effects of Dopamine D2 Receptor Specific Deletion in the Renal Proximal Tubules of Mic</td>
<td>Megha Kumar, Prasad Konkalmatt, Laureano D Asico, Jessica Hunt, Patricia Latham, Pedro A Jose, Ines Armando, George Washington Univ, Washington, DC</td>
</tr>
</tbody>
</table>

**7:30–9:30 AM**

**Session 13 Concurrent D**

**Primary Care Track:**

- **Part 1 – Atrial Fibrillation and Diabetic Hypertension in Primary Care Setting**
- **Part 2 – Diabetes and Hypertension**

**Chairs:**

Louis Kuritzky, MD, University of Florida, Gainesville, Florida
Anthony Viera, MD, MPH, FAHA, Duke University, Durham, North Carolina

**9:00–9:30 AM**

**The Donald Seldin Lecture**

*Acadia*

**7:30–8:30 AM**

**Primary Care Track:**

- **Atrial Fibrillation and Diabetic Hypertension in Primary Care Setting**

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<tr>
<td>7:30</td>
<td>Atrial Fibrillation and Hypertension in Primary Care Setting</td>
<td>Carl “Chip” J. Lavie, MD, Ocshner Health System, New Orleans, Louisiana</td>
</tr>
<tr>
<td>8:10</td>
<td>Panel and Q&amp;A Dr. Lavie and Dr. Germino</td>
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**9:30–10:00 AM**

**Refreshment Break and Exhibits**

*Preservation Hall*
Program Agenda (continued)

10:00–10:30 AM
Session 14
The Harriet Dustan Award Lecture
Acadia

10:00 New Insights Into a Variety of Metabolites Mechanistically Linking Microbiota With Hypertension
Bina Joe, PhD, FAHA, FAPS, University of Toledo College of Medicine, Toledo, Ohio

10:30 AM–Noon
Session 14 Concurrent A
Renal Transport Mechanisms
Galerie 3

Chairs:
Heddwen L. Brooks, PhD, College of Medicine, University of Arizona, Tucson, Arizona
Johannes Stegbauer, MD, University Hospital, Heinrich-Heine University, Düsseldorf, Germany

10:30–11:30 AM
Session 14 Concurrent B
Regulation of Blood Pressure by the Central Nervous System
Galerie 4 and 5

Chairs:
Keisa W. Mathis, PhD, FAHA, Department of Physiology and Anatomy, University of North Texas Health Science Center, Fort Worth, Texas
Richard D. Wainford, PhD, FAHA, Department of Pharmacology, Boston University School of Medicine, Boston, Massachusetts

Oral Abstract Presentations

10:30 Proximal Tubule-Specific Deletion of the NHE3 (Na+/H+Exchanger 3) in the Kidney Attenuates Angiotensin II-Induced Hypertension in Mice
Xiao C Li, Dongmin Zhu, Xu Chen, Xiaowen Zheng, Chunling Zhao, Xinzhou Zhou, Univ Mississippi Medical Ctr, Jackson, MS; Manoocher Soleimani, UNIV Cincinnati Coll of Med, Cincinnati, OH; Isabelle Rubera, Michel Tauc, Univ Côte d’Azur, Nice, France; Jia L Zhuo, Univ Mississippi Medical Ctr, Jackson, MS

10:45 Nephron-Specific Deletion of Intraflagellar Transport 88 Alters Renal Electrolyte Excretion in the Absence of Cystic Kidney Disease in a Sex-Specific Manner
Chunyan Hu, Jayalakshmi Lakshimpathi, Deborah Stuart, Donald Kohan, The Univ of Utah, Salt Lake City, UT

11:00 Elevated Fructose Intake Induces Hypertension in Dahl Salt Sensitive (SS) Rats on a Normal Na Diet: Role of SPAK (STK39) and NKCC2
Andrew J Eaton, Jose A Garcia-Pedraza, Henry Ford Health System, Detroit, MI; Pablo A Ortiz, Henry Ford Health System, Hypertension and Vascular Res Div, Detroit, MI

11:15 Dietary Fructose Enhances Protein Kinase C Activation by Angiotensin II in Proximal Tubules via Changes in Intracellular Calcium
Jeffrey L Garvin, Nancy Hong, Nianxin Yang, Case Western Reserve Univ, Cleveland, OH

11:30 Ghrelin is Produced by the Kidney and Mediates Distal Tubular Sodium Reabsorption in Rats
Brandon A Kemp, Nancy L Howell, Shetal H Padia, Univ of Virginia Sch of Med, Charlottesville, VA

11:45 Histone Deacetylase 1 Activates Renal Inner-Medullary Nitric Oxide Production
Randee Sedaka, Univ of Alabama at Birmingham, Birmingham, AL; Elena Mironova, James D Stockand, Univ of Texas Health Science Ctr at San Antonio, San Antonio, TX; Kelly A Hyndman, Jennifer S Pollock, Univ of Alabama at Birmingham, Birmingham, AL

10:30 AM–Noon
Session 14 Concurrent A
Renal Transport Mechanisms
Galerie 3

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10:30 AM–Noon
Session 14 Concurrent B
Regulation of Blood Pressure by the Central Nervous System
Galerie 4 and 5

Chairs:
Keisa W. Mathis, PhD, FAHA, Department of Physiology and Anatomy, University of North Texas Health Science Center, Fort Worth, Texas
Richard D. Wainford, PhD, FAHA, Department of Pharmacology, Boston University School of Medicine, Boston, Massachusetts

Oral Abstract Presentations

10:30 Divergent Metabolic and Cardiovascular Effects of FGF21
Donald A Morgan, Matthew J Potthoff, Kamal Rahmouni, Univ Iowa, Iowa City, IA

10:45 Gut Dysbiosis Impairs Serotonergic Gut-Brain Axis and Increases Blood Pressure
Tao Yang, Riley Larkin, Caria Bueno Silva, Basak Donertas, Luis Colon-Perez, Nora Awadallah, Jose Antonio Pino Reyes, Wendi Malphurs, Gonzalo Torres, David Baekey, Marcelo Febo, Univ of Florida, Gainesville, FL

11:00 Loss of Microglia Enhances Neuronal Activity in the Sympathetic Paraventricular Nucleus
Qianqian Bi, Chao Wang, Bo Wei, Zhejiang Univ, Hangzhou, China; Xiaoli Liu, Zhejiang Hosp, Hangzhou, China; Yan Gu, Xiao Z Shen, Peng Shi, Zhejiang Univ, Hangzhou, China

11:15 Pvn-Specific Microgliosis Drives Inflammation in G-Alpha-i2 Protein Dependent Salt Sensitive Hypertension and Gna12 Snps Correlate With Essential Hypertension
Jesse D Moreira, Parul Chaudhary, Kayla M Nist, Eric Abkin, Alissa A Frame, Franco Puleo, Richard D Wainford, Boston Univ, Boston, MA
11:30 Impaired Brain Cystathionine
Beta-Synthase-Derived H2S Production is Associated With the Development of Neurogenic Hypertension
Huijing Xia, Zhen Li, Eric Lazartigues, Daniel R Kapusta, David J Lefer, Cardiovascular Ctr of Excellence and Dept of Pharmacology, Louisiana State Univ Health Sciences Ctr, New Orleans, LA

11:45 Overexpression of Neuronal Nitric Oxide Synthase Associated Protein in the Paraventricular Nucleus Contributes to Increased Sympathoexcitation in Male Mice by Modulating Subcellular Localization of Neuronal Nitric Oxide Synthase
Neeru Sharma, Kenichi Katsurada, Shyam Nandi, Lie Gao, Kaushik Patel, UNMC, Omaha, NE

10:30 AM–Noon
Session 14 Concurrent C
Cardiac Hypertrophy and Dysfunction in Hypertension
Galerie 6

Chairs:
Jussara M. do Carmo, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Alison J. Kriegel, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

Oral Abstract Presentations
10:30 Role of Nox5 in Systemic Vascular Dysfunction in Ischemic Heart Disease
Augusto C Montezano, Raquel D Sarafian, Karla B Neves, Francisco J Rios, Patricia Passaglia, Livia L Camargo, Laura Haddow, Thomas J Ford, Michael Dunne, Rheure Alves-Lopes, Niah MacQuaide, Colin Berry, Godfrey Smith, Rhian M Touyz, ICAMS – Univ of Glasgow, Glasgow, United Kingdom

10:45 Intergenerational Inheritance of Obesity-Induced Diastolic Dysfunction With Preserved Ejection Fraction
Alexandre A da Silva, Fabio N Gava, Ana C Omoto, Sydney P Moak, Xuemei Dai, John E Hall, Jussara M. Docarmo, Univ of Mississippi Medical Ctr and Mississippi Ctr for Obesity Res, Jackson, Mississippi

11:00 Leptin-Thyroliberin Pathway in Left Ventricle Hypertrophy
Maia Aisicovich, Medical Res Inst IDIM, Natl Council of Scientific and Tech Res (CONICET); Buenos Aires Univ (UBA), Buenos Aires, Argentina
Ludmila S Peres Diaz, Mariano L Schuman, Medical Res Inst IDIM, Natl Council of Scientific and Tech Res (CONICET); Buenos Aires Univ (UBA), Buenos Aires, Argentina
Jorge E Toblli, Lab of Experimental Med, Hosp Alemán, Buenos Aires, Argentina
Maria S Landa, Silvia I Garcia, Medical Res Inst IDIM, Natl Council of Scientific and Tech Res (CONICET); Buenos Aires Univ (UBA), Buenos Aires, Argentina

11:15 Fine-Tuning of Gl/oSignaling by Rgs2 and 5 is Critical to Ensuring Normal Ventricular Rhythm
Shelby Dahlen, Drexel Univ, Philadelphia, PA

11:30 Novel Mir-21-5p/- Rat Model Exhibits Protection Against Chronic Kidney Disease Associated Cardiac Dysfunction
Victoria L Nasci, Aron Geurts, Alison J Kriegel, Medical Coll of Wisconsin, Milwaukee, WI

11:45 Adaptive Cardiac Remodeling to Chronic Pressure Overload Requires the Expression of Placental Growth Factor in the Spleen to Recruit Reparative Macrophages to the Left Ventricle
Daniela Carnevale, Sapienza Univ and IRCCS Neuromed, Pozzilli, Italy; Sara Perrotta, Sapienza Univ, Pozzilli, Italy; Raimondo Carnevale, Lorenzo Carnevale, IRCCS Neuromed, Pozzilli, Italy; Marialuise Perrotta, Sapienza Univ, Pozzilli, Italy; Fabio Pallante, Giuseppe Cifelli, IRCCS Neuromed, Pozzilli, Italy; Giuseppe Lembo, Sapienza Univ and IRCCS Neuromed, Pozzilli, Italy

10:00 AM–Noon
Session 14 Concurrent D
Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines
Galerie 1 and 2

Chairs:
Michael J. Bloch, MD, FACP, FASH, FSVM, FNLA, FAHA, Blue Spruce Medicine Consultants, Reno, Nevada
Jan N. Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina

10:00 Implementation of 2017 Blood Pressure Guidelines – Where Are We Now in Primary Care?
Brent Egan, MD, FAHA, American Medical Association, Charleston, South Carolina

10:20 How Can We Improve Implementation of 2017 Blood Pressure Guidelines: Panel Discussion
Moderators:
F. Wilford Germino, MD, FACP, FASH, FAHA, Orland Primary Care Specialists, Chicago, Illinois
Michael Weber, MD, FAHA, SUNY Downstate College of Medicine, New York, New York

Panelists:
Keith C. Ferdinand, MD, FAHA, Tulane University, New Orleans, Louisiana
Brent Egan, MD, FAHA, American Medical Association, Charleston, South Carolina
Sandra J. Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota
Jan N. Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina
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| 11:00    | **Simplified Combination and Stepped Care**  
Treatment for Mild to Moderate Hypertension in Primary Care  
Robert Brook, MD, FAHA, University of Michigan, Ann Arbor, Michigan |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 11:20    | **Evolving Paradigm for Treatment of Resistant Hypertension**  
John Flack, MD, MPH, FAHA, Southern Illinois University School of Medicine Springfield, Illinois |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 11:40    | **Panel Discussion with Dr. Brook and Dr. Flack**                                           |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| Noon–1:30 PM | **Lunch on Your Own**                                                                       |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 1:30–3:00 PM | **Poster Session III**                                                                     |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 1:30     | **Session 15**  
Clinical Practice Clinical Science Track: Hypertension Control Strategies in the Populations of the Pacific Rim: A Focus on the Effective Clinical Implementation: A joint session of AHA & World Hypertension League  
**Galerie 1 and 2**  
**Chair:**  
Daniel T. Lackland, DrPH, FAHA, Medical University of South Carolina, Mt Pleasant South Carolina  
Donald Dipette, MD, FAHA, University of South Carolina School of Medicine, Columbia, South Carolina  
**Discussant:**  
Jeffrey A. Cutler MD, FAHA Consultant for Medical Research, Washington DC |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 1:35     | **Approaches in China**                                                                     |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 1:47     | **Approaches in Japan**                                                                     |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 2:01     | **Approaches in Australia**                                                                 |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 2:13     | **The USA Complement**                                                                     |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 2:25     | **Panel Discussion on Implementing the Common Components**                                  |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 3:00–3:30 PM | **Refreshment Break and Exhibits**                                                           |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 3:30–5:30 PM | **Session 16 Concurrent A**  
Renin Angiotensin System  
**Galerie 3**  
**Chairs:**  
Jasmina Varagic, MD, PhD, FAHA, National Heart, Lung and Blood Institute, Bethesda, Maryland  
Marko Poglitsch, PhD, Attocuant Diagnostics, Vienna, Austria |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |

**Oral Abstract Presentations**

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</table>
| 3:30     | **Mutation in the Furin Cleavage Site of the Prorenin Receptor Attenuates Angiotensin-II Induced Hypertension and Albuminuria**  
Nirupama Ramkumar, Deborah Stuart, Will Wheatley, Donald E Kohan, Univ of Utah, Salt Lake City, UT |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 3:45     | **Renal-Specific Deletion of (Pro)Renin Receptor in Mice Induces Hyperkalemia During High Potassium Intake**  
Chuanming Xu, Univ of Utah, Salt Lake City, UT; Yanting Chen, Shiyong Xie, Sun Yat-Sen Univ Sch of Med, Guangzhou, China; Fei Wang, Renfei Luo, Tianxin Yang, Univ of Utah, Salt Lake City, UT |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 4:00     | **Megalin: A Novel Endocytic Receptor for Prorenin and Renin?**  
Yuan Sun, Ingrid M Garrels, Erasmus Medical Ctr, Rotterdam, Netherlands; Xieng Lu, Shenzhen Univ, Shenzhen, China; A H Jan Danser, Erasmus Medical Ctr, Rotterdam, Netherlands |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 4:15     | **Susceptibility of Mice Lacking Renin-B to Chronic Angiotensin II Infusion**  
Pablo Nakagawa, Medical Coll of Wisconsin, Wauwatosa, WI; Anand Nair, Shao Yang Zhang, Univ of Iowa, Iowa City, IA; Ko-Ting Lu, Mario Zanaty, Javier Gomez, Medical Coll of Wisconsin, Wauwatosa, WI; Justin L Grobe, Univ of Iowa, Iowa City, IA; Curt D Sigmund, Medical Coll of Wisconsin, Wauwatosa, WI |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 4:30     | **Novel Angiotensin-Converting-Enzyme 2 (ACE2) Truncates to Target the Kidney Renin-Angiotensin-System (RAS)**  
Jan Wysocki, Arndt Schulze, Ming Zhao, Chad Haney, Daniel Battle, Northwestern Univ, Chicago, IL |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
| 4:45     | **Mas Receptor Expression in Bone Marrow Stem/Progenitor Cells is Both Required and Sufficient for the Mobilization of Cells in Response to Ischemic Injury**  
Shrinidh Joshi, Goutham Vasam, NDSU, Fargo, ND; Steven Adkins, Univ of North Dakota, Grand Forks, ND; Sean E Thatcher, Univ of Kentucky, Lexington, KY; David S Bradley, Univ of North Dakota, Grand Forks, ND; Lisa A Cassis, Univ of Kentucky, Lexington, KY; Yagna P Jarajapu, North Dakota State Univ, Fargo, ND |泮洲 fennuc dherss  
Don't miss next year's conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20 |          |
3:30–5:30 pm
Session 16 Concurrent B
Clinical Hypertension and Target Organ Damage
Galerie 4 and 5

Chairs:
Eric Judd, MD, MS, University of Alabama
at Birmingham, Birmingham, Alabama
Sandra J. Taler, MD, FAHA, Mayo Clinic,
Rochester, Minnesota

Oral Abstract Presentations

3:30 The Effects of a Lower Blood Pressure
Treatment Goal on Orthostatic Hypotension
in Adults With Recent Stroke
Stephen P Juraschek, BIDMC-Harvard
Medical Sch, Auburndale, MA; Jennifer L
Beach, Anthony Ishak, Kenneth J Mukamal,
BIDMC-Harvard Medical Sch, Boston, MA

3:45 Amplification of Systolic Blood Pressure
and Pulse Pressure is Higher in Resistant
Hypertensive Patients Irrespective of
Blood Pressure Control
Badhma Valaiyapathi, Tanja Dudenbostel,
Mohammed Siddiqui, Bin Zhang, Maria E
El Hachem, Suzanne Opari, David A
Calhoun, Univ of Alabama at Birmingham,
Birmingham, AL

4:00 Blood Pressure Variation and Renal
Functional Changes in Chronic Renal
Insufficiency Patients With or Without
Diabetes in a Large Cohort Study
Ling Wang, Kevin Penezkian, Donna Wang,
Michigan State Univ, East Lansing, MI

4:15 The Association Between Overnight
Rostral Fluid Shift and Sleep Disordered
Breathing in Patients With Treatment
Resistant Hypertension
Sayuki Ishiwata, Hiroki Matsumoto,
Cardiovascular Respiratory Sleep Med,
Juntendo Univ Graduate Sch of Med, Tokyo,
Japan; Akihiko Sato, Jun Shitara, Shoko
Suda, Dept of Cardiovascular Med, Juntendo
Univ Graduate Sch of Med, Tokyo, Japan;
Takatoshi Kasai, Cardiovascular Respiratory
Sleep Med, Juntendo Univ Graduate Sch of
Med, Tokyo, Japan

4:30 Bradykinin B2Receptor Blockade Prevents
Excessive Blood Pressure Reduction During
Hemodialysis
Jorge L Gamboa, Aaron Falck, Cindy
Mambungu, Adrienne Ciagetti, T. Apl Ikizler,
Nancy J Brown, Vanderbilt Univ Medical Ctr,
Nashville, TN

4:45 Prevalence and Characteristics of Cardiac
Rehabilitation Participants With Resistant
Hypertension
Luke Joseph Laffin, Asad Khan, Cleveland
Clinic Fndn, Cleveland, OH; Katherine Lang,
Case Western Reserve Univ Sch of Med,
Cleveland, OH; Erik H Van Iterson, Cleveland
Clinic Fndn, Cleveland, OH

5:00 Changes in Plasma Renin Activity After
Renal Denervation in the Spyral Htn-Off
Med Trial
Felix Mahfoud, Univsklinikum des Saarlandes,
Homburg/Saar, Germany; David E Kandzari,
Piedmont Heart Inst, Atlanta, GA; Kazuomi
Kario, Jichi Medical Univ Sch of Med, Tochigi,
Japan; Stuart Pocock, London Sch of Hygiene
and Tropical Med, London, United Kingdom;
Roland E Schmieder, Univsklinikum Erlangen,
Erlangen, Germany; Raymond R Townsend,
Perelman Sch of Med, Univ of Pennsylvania,
Philadelphia, PA; Konstantinos Tsioufis, Univ
of Athens, Hippocratio Hosp, Athens, Greece;
Michael A. Weber, SUNY Downstate Coll of
Med, Brooklyn, NY; Lucas Lauder, Univsklinikum
des Saarlandes, Homburg/Saar, Germany;
Martin Fahy, Medtronic PLC, Santa Rosa, CA;
Michael Böhm, Univsklinikum des Saarlandes,
Homburg/Saar, Germany

5:15 Association of Blood Pressure Phenotype
With Measures of Target Organ Damage
Elaine M Urbina, Cincinnati Children’s Hosp,
Cincinnati, OH; Michael Ferguson, Boston
Children’s Hosp, Boston, MA; Marc Lande,
Univ of Rochester Medical Ctr, Rochester, NY;
Kevin Meyers, Children’s Hosp of Philadelphia,
Philadelphia, PA; Joshua Samuels, Univ of
Texas Health Sciences Ctr, Houston, TX;
Joseph T Flynn, Seattle Children’s Hosp,
Seattle, WA
3:30–5:30 PM
Session 16 Concurrent C
Mechanisms in Diabetes and Obesity
Galerie 6

Chairs:
Amy Christine Arnold, PhD, FAHA, Pennsylvania State College of Medicine, Hershey, Pennsylvania
Michael R. Garrett, PhD, MBA, FAHA, University of Mississippi Medical Center, Jackson, Mississippi

3:30  State of the Art Lecture: Recent Trials in Diabetic Nephropathy: SONAR and CREDENCE
Donald E. Kohan, MD, PhD, FAHA, University of Utah Health Center, Salt Lake City, Utah

Oral Abstract Presentations

4:00  Active Time-Restricted Feeding Potently Protects Blood Pressure Daily Rhythm in Diabetic Mice
Tianfei Hou, Wen Su, Marilyn J Duncan, Ming C Gong, Zhenheng Guo, Univ of Kentucky, Lexington, KY

4:15  Soluble (pro) Renin Receptor Serves as Novel Insulin Sensitizing Agent in Mice With Diet-Induced Obesity
Fei Wang, Renfei Luo, Chang-Jiang Zou, Shiyi Xie, Xing Peng, Long Zhao, Kevin T Yang, Chuanming Xu, Tianxin Yang, Univ of Utah, Salt Lake City, UT

4:30  Chemerin Regulates Adipocyte Size in Mesenteric Perivascular Adipose Tissue When on a Normal but Not High Fat Isocaloric Diet
David J Ferland, Hannah Garver, Andres G Contreras, Gregory D Fink, Stephanie W Watts, Michigan State Univ, East Lansing, MI

4:45  Renal Inflammation Correlates With Pararenal and Perirenal Adipose Inflammation in Obesity
Maria Jelinic, Vivian Tran, Henry Diep, Christopher G Sobey, Grant R Drummond, Antony Vinh, La Trobe Univ, Melbourne, Australia

5:00  Downregulation of Perivascular Adipose Tissue PPAR Gamma in Western Diet-Induced Persistent Vascular Dysfunction in Female Rats
Maria Alicia Carrillo-Sepulveda, Nicole Maddie, Dhandevi Persand, NYIT Coll of Osteopathic Med, New York, NY

5:15  BMI is Not a Risk Factor for All-Cause Mortality and Cardiovascular Disease Among African American Women
Srividya Kidambi, Priyanka Agarwal, Almira Yang, Thomas Chelius, David Mattson, Allen Cowley, Purushottam Laud, Tao Wang, Mingyu Liang, Theodore Kotchen, Medical Coll of Wisconsin, Brookfield, WI

3:30–5:00 PM
Session 16 Concurrent D
Clinical Practice Clinical Science Track:
Hypertension Journal CPC Case Study Session
Galerie 1 and 2

Chairs:
Professor Dame Anna F. Dominiczak, MD, FAHA, University of Glasgow, Glasgow, Scotland
Rhian M. Touyz, MBCh, PhD, FMedSci, FAHA, University of Glasgow, Glasgow, Scotland

3:30  Case I: Case of Episodic and Positional Hypertension – Diagnosis and Treatment
Case Presenters:
Mohammed Siddiqui, MD, University of Alabama at Birmingham, Birmingham, Alabama
Tanja Dudenbostel, MD, University of Alabama at Birmingham, Birmingham, Alabama

4:15  Case II: A Case of Resistant Hypertension with Ibrutinib Therapy and Self-Adjustment of Medications
Case Presenters:
Matthew D’Costa, MD, Mayo Clinic, Rochester, Minnesota
Gary L Schwartz, MD, FAHA, Mayo Clinic, Rochester, Minnesota

5:45–6:30 PM
Session 17
The Excellence Award for Hypertension Research Lecture
Acadia

5:45  Molecular Mechanisms and Vascular Biology of Hypertension
Rhian M. Touyz MBCh, PhD, FMedSci, FAHA, University of Glasgow, Institute of Cardiovascular and Medical Sciences, Glasgow, Scotland

7:00–7:30 PM
Annual Hypertension Scientific Sessions Awards Social
(Dinner ticket is required)
Acadia Foyer

7:30–10:30 PM
Annual Hypertension Scientific Sessions Award Banquet
(Dinner ticket is required)
Acadia

Don’t miss next year’s conference September 10-13, 2020 at the Hilton Riverside New Orleans. #Hypertension20
Program Agenda (continued)

SUNDAY, SEPTEMBER 8

7:00 AM
Registration and Refreshments
Preservation Hall

7:30–9:00 AM
Session 18 Concurrent A
Vascular Stiffness and Fibrosis
Galerie 3

Chairs:
Lauren Gerard Koch, PhD, College of Medicine and Life Sciences, The University of Toledo, Toledo, Ohio
Pierre Paradis, PhD, Lady Davis Institute for Medical Research, SMBD-Jewish General Hospital, McGill University, Montreal, Quebec, Canada

Oral Abstract Presentations

7:30 Transplantation of Bone Marrow Cells from miR-150-KO Mice Improves Immune Function and Attenuates Arterial Stiffness and Hypertension in Senescence-Accelerated Mice
Jun Fan, Shirley Wang, Zhongjie Sun
Univ of Tennessee HSC, Memphis, TN

7:45 Mitochondrial Fission in Vascular Cells Mediates Hypertensive Vascular Remodeling and Inflammation
Hannah Cooper, Masashi Miyao, Tatsuo Kawai, Kyle Preston, Kathy Elliott, Rosario Scalia, Victor Rizzo, Satoru Eguchi, Temple Univ, Philadelphia, PA

8:00 Ccl18 as a Potential Mediator of the Pro-Fibrotic Actions of M2 Macrophages in the Vessel Wall During Hypertension
Mingyu Zhu, Caitlin V Lewis, Meghan J Finemore, Maggie Lieu, Robert E Widdop, Chirshan S Samuel, Monash Univ, Melbourne, Australia; Grant R Drummond, La Trobe Univ, Melbourne, Australia; Barbara K Kemp-Harper, Monash Univ, Melbourne, Australia

8:15 Protective Role of Vascular Smooth Muscle Rho-Related BTB Domain Containing Protein 1 in Hypertension and Arterial Stiffness
Shi Fang, Medical Coll of Wisconsin, Wauwatosa, WI; Masashi Mukohda, Univ of Iowa, Iowa City, IA; Jing Wu, Medical Coll of Wisconsin, Wauwatosa, WI; Anand R Nair, Xuebo Liu, Univ of Iowa, Iowa City, IA; Curt D Sigmund, Medical Coll of Wisconsin, Wauwatosa, WI

8:30 Leptin Restores Endothelial Function, Diminishes Vascular Adrenergic Contractility, but Does Not Alter Arterial Stiffness and Blood Pressure, in a Mouse Model of Congenital Generalized Lipodystrophy
Thiago Bruder-Nascimento, Jessica L Faulkner, Simone Kennard, Galina Antonova, Wei Jin Chen, Eric J Belin de Chantemerle, Augusta Univ, Augusta, GA

8:45 Cardiac Hypertrophy and Vascular Function are Directly Proportional to Mitochondrial Variations in Intrinsic Exercise Capacity
Shaunak Roy, Jonnelle M Edwards, Jeremy C Tomcho, Nicole R Bearss, Cameron G McCarthy, Youjie Zhang, Adam C Spegele, Lauren G Koch, Bina Joe, Camilla F Wenceslau, Univ of Toledo Coll of Med and Life Sciences, Toledo, OH

7:30–9:00 AM
Session 18 Concurrent B
Inflammation and Immune Mechanisms
Galerie 4 and 5

Chairs:
Justine M. Abais-Battad, PhD, Augusta University, Augusta, Georgia
Daniela Carnevale, PhD, FAHA, Sapienza University of Rome, Pozzilli, Italy

Oral Abstract Presentations

7:30 Difficult-To-Control Blood Pressure in Non-Diabetic Hypertensive Subjects is Associated With Upregulated Gene Expression of Inflammatory Pathways
Kausik Umanath, Ruicong She, Clare Hassett, Indra Adrianato, Jerry Yee, Albert Levin, Pablo Ortiz, Henry Ford Hosp, Detroit, MI

7:45 NaCl Treatment Prior To Chronic Angiotensin II Infusion Exaggerates Vascular Inflammation and the Development of Abdominal Aortic Aneurysms By Affecting Immune Cell Response
Mina Yakoub, Sebastian Temme, Lydia Hering, Ulrich Flögel, Lars C Rump, Johannes Stegbauer, Heinrich-Heine Univ, Düsseldorf, Germany

8:00 Low-Grade Chronic Infection Induces Vascular Dysfunction and Remodeling in Salt Sensitive Hypertension
Jonnelle Edwards, Sarah Galia, Jeremy C Tomcho, Cameron G McCarthy, Nicole Bearss, Shaunak Roy, Blair Mell, Xi Cheng, Bina Joe, Camilla F Wenceslau, Univ of Toledo Coll of Med and Life Sciences, Toledo, OH
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Abstract</th>
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<tbody>
<tr>
<td>8:15</td>
<td><strong>Role of Vγ6+ γδ T Cells in Angiotensin II-Induced Hypertension and Vascular Injury</strong></td>
<td>Ahmad Mahmoud, Antoine Caillon, Pierre Paradis, Ernesto L Schiffrin, Lady Davis Inst, Montréal, QC, Canada</td>
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<tr>
<td>8:30</td>
<td><strong>The Lung-Associated Self-Antigen Type V Collagen is Regulated by Nuclear Factor of Activated T Cells Isoform c3 in Chronic Hypoxia</strong></td>
<td>David T Jones, Benjamin J Lantz, Yan Guo, Univ of New Mexico Health Sciences Ctr, Albuquerque, NM; Ewa Jankowska-Gan, William J Burlingham, Univ of Wisconsin Sch of Med and Public Health, Madison, WI; Laura V Gonzalez Bosc, Univ of New Mexico Health Sciences Ctr, Albuquerque, NM</td>
</tr>
<tr>
<td>8:45</td>
<td><strong>Leptin Accelerates Autoimmune Disease Progression and the Development of Hypertension in an Experimental Model of Systemic Lupus Erythematosus</strong></td>
<td>Erin Taylor, Michael Ryan, Univ of MS Medical Ctr, Jackson, MS</td>
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</table>

**7:30–9:00 AM**

**Session 18 Concurrent C**

**Mechanisms in Chronic Kidney Disease and Fibrosis**

**Galerie 6**

**Chairs:** Daria V. Ilatovskaya, MS, PhD, FAHA, Medical University of South Carolina, Charleston, South Carolina Carmen De Miguel, PhD, University of Alabama at Birmingham, Birmingham, Alabama

**Oral Abstract Presentations**

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<tr>
<th>Time</th>
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<th>Abstract</th>
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<tr>
<td>7:30</td>
<td><strong>The Microbiome Product Urolithin a Abrogates the TGF-β EGFR PAI-1 Pathway by Inhibiting EGFR Activation and Expression</strong></td>
<td>Ana Clara Melo, Nancy T Pirro, Wake Forest Sch Med, Winston Salem, NC; Ann Tallant, Patricia E. Gallagher, Wake Forest Sch Med, Winston-Salem, NC; Mark C Chappell, Wake Forest Sch Med, Winston Salem, NC</td>
</tr>
<tr>
<td>7:45</td>
<td><strong>Down Regulation of Gamma-Adducin Diminishes Glomerular Function and Promotes Hypertension Related Chronic Kidney Disease</strong></td>
<td>Xiaochen He, Shaoxun Wang, Ya Guo, Wenjun Gao, Richard J. Roman, Fan Fan, UMMC, Jackson, MS</td>
</tr>
<tr>
<td>8:00</td>
<td><strong>Insulin Regulated Aminopeptidase Inhibitors are More Effective Than the ACE Inhibitor, Perindopril in Preventing Unilateral Ureteral Obstruction-Induced Renal Fibrosis in Mice</strong></td>
<td>Sharenya Chelvaretnam, Matthew Shen, Monash Univ, Clayton, Australia; Simon J Mountford, Philip E Thompson, Monash</td>
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</tbody>
</table>

**9:00–9:30 AM**

**Session 18 Concurrent D**

**Clinical Practice Clinical Science Track:**

**Blood Pressure Controversies: The Central Nervous System and the Older Patient**

**Galerie 1 and 2**

**Chairs:** Brent Egan, MD, FAHA, American Medical Association, Charleston, South Carolina Steven M. Smith, PharmD, MPH, College of Pharmacy, University of Florida, Gainesville, Florida

**Debate: Is There a Best Blood Pressure Target Post-Stroke for Outcome Improvement**

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<tr>
<th>Time</th>
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<th>Abstract</th>
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<tr>
<td>7:30</td>
<td><strong>The Neurologist's Viewpoint</strong></td>
<td>Philip B. Gorelick, MD, MPH, FAHA, Davee Department of Neurology, Northwestern University Feinberg School of Medicine, Chicago, Illinois</td>
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<tr>
<td>7:55</td>
<td><strong>The ACC/AHA US Hypertension Guideline Perspective</strong></td>
<td>Paul Whelton, MD, MSc, Tulane University, New Orleans, LA</td>
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<td>8:20</td>
<td><strong>Rebuttal Dr Gorelick</strong></td>
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<td>8:25</td>
<td><strong>Rebuttal Dr Whelton</strong></td>
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### Program Agenda (continued)

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<th>Time</th>
<th>Session/Topic</th>
<th>Location</th>
<th>Authors/Institutions</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Blood Pressure and Cognitive Decline: SPRINT-MIND</td>
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<td>William C. Cushman, MD, FAHA, FASH, Veterans Affairs Medical Center, Memphis, Tennessee</td>
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<tr>
<td>9:00</td>
<td>Panel Discussion Dr. Gorelick, Dr. Whelton and Dr. Cushman</td>
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<td>9:30–10:00</td>
<td>Refreshment Break</td>
<td>Preservation Hall</td>
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<tr>
<td>10:00–11:30</td>
<td>Session 19 Concurrent A Role of the CNS in Obesity</td>
<td>Galerie 3</td>
<td>Analia S. Loria, PhD, University of Kentucky, Lexington, Kentucky</td>
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<td>Huxing Cui, PhD, University of Iowa Carver College of Medicine, Iowa City, Iowa</td>
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<tr>
<td>10:00</td>
<td>Cellular Senescence in the Paraventricular Nucleus – Novel Implications for Obesity-Induced Sympatheoxcitation</td>
<td>135</td>
<td>Madhan Subramanian, Delton Hall, Oklahoma State Univ, Stillwater, OK; Priya Balasubramanian, Univ of Oklahoma Health Science Ctr, Oklahoma City, OK</td>
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<tr>
<td>10:15</td>
<td>The Ventromedial Hypothalamic BBsome is Required for Energy Homeostasis and Sympathetic Nerve Traffic Control</td>
<td>136</td>
<td>Deng-Fu Guo, Mohamed Rouabhi, Donald A Morgan, Kamal Rahmouni, The Univ of Iowa, Iowa City, IA</td>
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<tr>
<td>10:30</td>
<td>Impact of Leptin Deficiency Compared to Neuronal Specific Leptin Receptor Deletion on Cardiometabolic Regulation</td>
<td>137</td>
<td>Jussara M do Carmo, Alexandre A da Silva, Fabio N Gava, Sydney P Moak, Xuemei Dai, John E Hall, Univ of Mississippi Medical Ctr, Mississippi Ctr for Obesity Res, Jackson, MS</td>
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<tr>
<td>10:45</td>
<td>Acute Stimulation of Neuro-Adipose Connections Increase Blood Pressure Responses in Male Mice Exposed to Early Life Stress</td>
<td>138</td>
<td>Carolina Dalmasso, Sophia Mounce, Jacqueline Leachman, Xiu Xu, Analia Loria, Univ of Kentucky, Lexington, KY</td>
</tr>
<tr>
<td>11:00</td>
<td>Nicotinic Acetylcholine Receptor Genes Contribute to Leptin Resistance</td>
<td>139</td>
<td>Changwei Li, Luqi Shen, Ruiyuan Zhang, Jia-Sheng Wang, Ye Shen, Jose Cordero, Zhong-Ru Xie, Lei Lou, Lirong Liang, Univ of Georgia, Athens, GA</td>
</tr>
<tr>
<td>11:15</td>
<td>Neuronal Prorenin Receptor Deletion Attenuates Astrogliaosis and Inflammation in the Arcuate Nucleus of Mice Fed With High Fat Diet</td>
<td>140</td>
<td>Caleb J Worker, Yumei Feng, Univ of Nevada, Reno Medical Sch, Reno, NV</td>
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<tr>
<td>10:00–11:30</td>
<td>Session 19 Concurrent B Renal Hemodynamics Mechanisms</td>
<td>Galerie 4 and 5</td>
<td>Nirupama Ramkumar MD, MPH, FAHA, University of Utah, Salt Lake City, Utah</td>
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<td>Jennifer S. Pollock, PhD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama</td>
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<tr>
<td>10:00</td>
<td>Enhanced Hydrogen Peroxide-Dependent Renin and Pro-Renin Release in Juxtaglomerular Cells from Diabetic Mice: Role of NOX1</td>
<td>141</td>
<td>M. Cecilia Ortiz-Capisano, Dipak Maskey, Mariela Mendez, Henry Ford Hosp, Detroit, MI</td>
</tr>
<tr>
<td>10:15</td>
<td>Purinergic P2X Receptors and a T 1 Receptors Share Post-Receptor Signaling Pathways Regulating Renal Afferent Arterioles in Angiotensin I I (Ang I I) Dependent Hypertension Supaporn Kulthinee, Thanmasat Univ, Pathum Than, Thailand; Weijian Shao, Tulane Univ, New Orleans, LA; Martha Franco, Insto Nacional de Cardiologia Ignacio Chavez, Mexico City, Mexico; L Gabriel Navar, Tulane Univ, New Orleans, LA</td>
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<tr>
<td>10:30</td>
<td>Enhancing Renal Lymphatic Vessel Density Blunts Both Salt-Sensitive and Angiotensin II-Dependent Hypertension in Mice Dakshnapiya Balasubbramanian, Sunitha Konatham, Geina Iskander, Madison Engelhaut, Sydney Love, Winter Tate, Bethany L Goodlett, Sophie Wedgeworth, Gaurav Baranwal, Joseph M Rutkowski, Brett M Mitchell, Texas A and M Univ HSC, College Station, TX</td>
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<tr>
<td>10:45</td>
<td>Macula Densa NOS1β-Mediated TGF Response Plays an Important Role in the Sex Differences in Salt-Sensitive Hypertension Jie Zhang, Jin Wei, Shan Jiang, Lei Wang, Ruiheng Liu, The Univ of South Florida, Tampa, FL</td>
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<tr>
<td>11:00</td>
<td>Knockout of Gamma-Adducin Impairs Vascular Function in Renal Arterioles in Association With Htn-Induced Renal Injury Wenjun Gao, Letao Fan, Huawei Zhang, Xiaochen He, Shaoxun Wang, Guo Ya, Richard J Roman, Fan Fan, Univ of Mississippi Medical Ctr, Jackson, MS</td>
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Program Agenda (continued)

11:15 Glomerular Capillary Hypertrophy is Insufficient to Mitigate Mechanical Stresses in 5/6 Nephrectomy: A Modeling Study
Owen Richfield, Luis G Navar, Ricardo Cortez, Tulane Univ, New Orleans, LA

11:15 Downregulation of Placental Genes are Associated With the Development of Maternal Syndrome in Dahl Salt-Sensitive Rats

10:00–11:30 AM
Session 19 Concurrent C
Preeclampsia and Developmental Programming
Galerie 6

Chairs:
Jane F. Reckelhoff, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Kate M. Denton, PhD, FAHA, Monash University, Clayton, Australia

Oral Abstract Presentations

10:00 Copeptin and Mid-Regional Pro-ANP in Women With Suspected or Confirmed Preeclampsia: Comparison With the sFlt-1/PIGF Ratio
Rugina Neuman, Maaike Alblas van der Meer, Laneza Saleh, Sjoerd van den Berg, Ton van den Meiracker, Willy Visser, Jan Danser, Erasmus Medical Ctr, Rotterdam, Netherlands

10:15 Sex-Differences in Fetal Programming of Cardiomyopathy Induced by Hypertensive Disorders of Pregnancy in Mice
Nissim Benizri, McGill Univ, Montréal, QC, Canada; Nozha Raguema, Casandra Marc, CIUSSS Nord-de-l’Île-de-Montréal, Montréal, QC, Canada; Émilie Pépin, Julie Lavoie, Univ de Montréal, Montréal, QC, Canada; Mariane Bertagnolli, CIUSSS Nord-de-l’Île-de-Montréal, Montréal, QC, Canada

10:30 Postpartum Cognitive Function in Young Women With a History of Preeclampsia: Association With Blood Pressure but Not Large Artery Stiffness
Virginia R Nuckols, Amy K Stroud, Debra S Brandt, Lyndsey E DuBose, Mark K Santillian, Donna A Santillan, Gary L Pierce, Univ of Iowa, Iowa City, IA

10:45 Obese Hypertensive Pregnant Rats Have Reduced Placental Growth Factor Whereas Increasing It’s Levels Decreases Their Blood Pressure
Frank T Spradley, Ana C Palei, Univ of Mississippi Medical Ctr, Jackson, MS; Woo S Joo, Paul Kussie, Adelene Y Tan, Aggamin LLC, New York, NY

11:00 Post-Partum Hypertension in Response to Acute Kidney Injury During Pregnancy
Jamie Szczepanski, Shauna-Kay Spencer, Taylor Bowles, John P Dumas, Jan M Williams, Ashley Griffin, Kedra Wallace, Univ of Mississippi Medical Ctr, Jackson, MS
Poster Presentations

Poster Session Schedule
All poster sessions will be held in Preservation Hall.

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<th>Poster Session Date</th>
<th>Presentation Time</th>
<th>Set-up Time</th>
<th>Tear-Down Time</th>
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<tr>
<td>Session I Thursday, September 5</td>
<td>5:30–7:30 PM</td>
<td>Noon–5:00 PM</td>
<td>8:00–9:00 PM</td>
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<tr>
<td>Session II Friday, September 6</td>
<td>1:30–3:00 PM</td>
<td>9:00 AM–1:00 PM</td>
<td>3:00–5:00 PM</td>
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<tr>
<td>Session III Saturday, September 7</td>
<td>1:30–3:00 PM</td>
<td>9:00 AM–1:00 PM</td>
<td>3:00–5:00 PM</td>
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Thursday, September 5, 5:30–7:30 PM
Poster Session I, Trainee Onsite Poster Competition
Abstracts P101–P199 and P1100–1127
Note that there may be instances where the posters are not in numerical order due to changes requested by the presenter.

Poster Professors/Judges:
Francois M. Abboud, MD, FAHA, University of Iowa, Iowa City, Iowa
Wissam A. AbouaIaawi, PhD, University of Toledo, Toledo, Ohio
Barbara T. Alexander, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Matt Alexander, MD, PhD, Vanderbilt University Medical Center, Nashville, Tennessee
Amy Christine Arnold, PhD, FAHA, Pennsylvania State, College of Medicine, Hershey, Pennsylvania
George L. Bakris, MD, MA, FASN, FAHA, University of Chicago Medicine, Chicago, Illinois
Christopher T. Banek, PhD, University of Arizona, Tucson, Arizona
Eric Belin de Chantermele, DSc, FAHA, Medical College of Georgia at Augusta University, Augusta, Georgia
John Bisognano, MD, PhD, FAHA, University of Rochester Medical Center, Rochester, New York
J. Brian Byrd, FAHA, MD, University of Michigan Medical School, Ann Arbor, Michigan
Maria Alicia Carrillo-Sepulveda, PhD, New York Institute of Technology, Long Island, New York
Huxing Cui, PhD, University of Iowa Carver, College of Medicine, Iowa City, Iowa
William C. Cushman, MD, FAHA, FASH, Veterans Affairs Medical Center, Memphis, Tennessee
Carmen De Miguel, PhD, University of Alabama at Birmingham, Birmingham, Alabama
Christian Delles, MD, FAHA, University of Glasgow, Glasgow, Scotland
Kate M. Denton, PhD, FAHA, Monash University, Clayton, Australia
Professor Dame Anna F. Dominiczak, MD, FAHA, University of Glasgow, Glasgow, Scotland
Satoru Eguchi, MD, PhD, FAHA, Temple University Lewis Katz School of Medicine, Philadelphia, Pennsylvania
Fernando Eljovich, MD, FAHA, Vanderbilt University, Nashville, Tennessee
Fan Fan, MS, FAHA, University of Mississippi, Medical Center, Jackson, Mississippi
Yumei Feng Earley, MD, PhD, FAHA, University of Nevada Reno, Reno, Nevada
Gregory Fink, PhD, FAHA, Michigan State University, East Lansing, Michigan
Alfredo J. Gamboa, MD, FAHA, Vanderbilt University, Nashville, Tennessee
Edward Inscho, PhD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama
Hana A. Itani, PhD, FAHA FASN, American University of Beirut, Beirut, Lebanon
Pedro A. Jose, MD, PhD, FAHA, The George Washington University School of Medicine & Health Sciences, Washington, DC
Nancy L. Kanagy, PhD, FAHA, University of New Mexico, Albuquerque, New Mexico
Sivarajan Kumarasamy, PhD, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio
Eric Lazartigues, PhD, FAHA, Louisiana State University Health Sciences Center, New Orleans, Louisiana
Meena S. Madhur, MD, PhD, FAHA, Vanderbilt University, Nashville, Tennessee
Cameron G. McCarthy, PhD, Department of Physiology and Pharmacology, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio
Brett Mitchell, PhD, FAHA, Texas A&M College of Medicine, College Station, Texas
Augusto C. Montezano, PhD, FAHA, University of Glasgow, Glasgow, Scotland
Dominik N. Mueller, PhD, Max-Delbruck Center and Clinical Experimental Research Center, Berlin, Germany
Pablo Nakagawa, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin
Benard Ogola, PhD, Tulane Universit, New Orleans, Louisiana
Patrick J. Pagano, PhD, FAHA, University of Pittsburgh, Pittsburgh, Pennsylvania
Pierre Paradis, PhD, Lady Davis Institute for Medical Research, SMBD-Jewish General Hospital, McGill University, Montreal, Quebec, Canada
Marko Poglitsch, PhD, Attoquant Diagnostics, Vienna, Austria
David M. Pollock, PhD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama
Jennifer Pollock, PhD, FAHA, University of Alabama Birmingham, Birmingham, Alabama
Jane F. Reckelhoff, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Francisco Rios, PhD, University of Glasgow, Glasgow, Scotland
Olive Rosendorff, MD, PhD, DSSciMed, FAHA Icahn School Of Medicine At Mount Sinai, New York, New York
Mark K. Santillian, MD, PhD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa

Become an AHA/ASA Professional Member and save on next year’s registration.
Jennifer M. Sasser, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Sabrina Scroggins, PhD, University of Iowa, Iowa City, Iowa
Maria Luisa Sequeira Lopez, MD, University of Virginia, Charlottesville, Virginia
Cyndya Shibao, MD, Vanderbilt University Medical Center, Nashville, Tennessee
Hillel Sternlicht, MD, Detroit Medical Center, Detroit, Michigan
Adam C. Straub, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania
Wanpen Vongpatanasin, MD, FAHA, University of Texas Southwestern Medical Center, Dallas, Texas
Stephen Walsh, MRCP, PhD, University College London, London, United Kingdom
Junie Warrington, PhD, University of Mississippi Medical Center, Jackson, Mississippi
Stephanie W. Watts, PhD, FAHA, Michigan State University, East Lansing Michigan
R. Clinton Webb, PhD, FAHA, Augusta University, Augusta, Georgia
Camilla Wenceslau, PhD, The University of Toledo College of Medicine and Life Sciences, Toledo, Ohio
Jing Wu, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin
Stephanie W. Watts, PhD, FAHA, Michigan State University, East Lansing Michigan
Junie Warrington, PhD, University of Mississippi Medical Center, Jackson, Mississippi
Hillel Sternlicht, MD, Detroit Medical Center, Detroit, Michigan
Camilla Wenceslau, PhD, The University of Toledo College of Medicine and Life Sciences, Toledo, Ohio
Jing Wu, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

Friday, September 6, 1:30-3:00 PM
Poster Session II
Note that there may be instances where the posters are not in numerical order due to changes requested by the presenter.

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<td>APS.2.1</td>
<td>Cardiac Hypertrophy and Heart Failure</td>
<td>P2001-P2013</td>
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<tr>
<td>APS.2.2</td>
<td>Renin-Angiotensin Aldosterone System</td>
<td>P2014-P2033</td>
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<tr>
<td>APS.2.3</td>
<td>Renal Transport and Hemodynamics</td>
<td>P2034-P2049</td>
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<tr>
<td>APS.2.4</td>
<td>Clinical, Genetic and Epidemiological Mechanisms</td>
<td>P2050 -P2074</td>
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Poster Professors:
Alison J. Kriegel, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin
Amy Christine Arnold, PhD, FAHA, Penn State College of Medicine, Hershey, Pennsylvania
Justin L. Grobe, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin
Jorge F. Giani, PhD, Cedars Sinai Medical Center, Los Angeles, California
Jennifer S. Pollock, PhD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama
Bina Joe, PhD, FAHA, FAPS, College of Medicine and Life Sciences, University of Toledo, Toledo, Ohio
Gary L. Pierce, PhD, FAHA, University of Iowa, Iowa City, Iowa

Saturday, September 7, 1:30-3:00 PM
Poster Session III
Note that there may be instances where the posters are not in numerical order due to changes requested by the presenter.

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<td>Vascular Mechanisms and Biology</td>
<td>P3001-P3025</td>
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<tr>
<td>APS.3.2</td>
<td>Salt and Nutrition</td>
<td>P3026-P3037</td>
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<tr>
<td>APS.3.3</td>
<td>Pregnancy and Preeclampsia</td>
<td>P3038-P3047</td>
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<tr>
<td>APS.3.4</td>
<td>Pharmacology and Non-pharmacological Approaches</td>
<td>P3048-P3059</td>
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<tr>
<td>APS.3.5</td>
<td>Neurogenic Mechanisms</td>
<td>P3060-P3063</td>
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Poster Professors:
Nancy L. Kanagy, PhD, FAHA, University of New Mexico, Albuquerque, New Mexico
Meena S. Madhur, MD, PhD, FAHA, Vanderbilt University, Nashville, Tennessee
Jing Wu, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin
Babbette B Lamarca, PhD, FAHA, University of Mississippi Medical Center Jackson, Mississippi
Cameron G. McCarthy, PhD, Department of Physiology and Pharmacology, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio
Christopher T. Banek, PhD, University of Arizona, Tucson, Arizona

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Poster Presentations (continued)

P101 Interleukin 17 Signaling Mediates Cytolytic Natural Killer Cell Activation in Response to Placental Ischemia
Denise C Cornelius, Olivia K Travis, Dakota White, Cedar H Baik, Willie L Thompson, Chelsea Giachelli, Jan M Williams, Babbette LaMarca, Univ of Miss Med Ctr, Jackson, MS

P102 A Vegan Approach for Gestational Hypertension in African Americans
Laura Moreno, Herzing Univ, Menomonee Falls, WI

P103 Atherosclerotic Cardiovascular Disease Risk Reduction in High Risk Populations: A Resident Driven Quality Improvement Initiative
Eric Y Chang, Terunayo Abe, Krystle Campbell, Hadia Ahmad, Chishom Anyanwoke, Chima Odinkemere, Nicolas Bakinde, Morehouse Sch of Med, Atlanta, GA

P104 Activation of Endoplasmic Reticulum Stress and Thrombospondin-1 Anti-Angiogenic Mechanisms in Placentas of Hypertensive Mice
Casandra Marc, Allahah Achille, Nozha Raguema, CIUSSS Nord-de-l’Île-de-Montréal, Montréal, QC, Canada; Émilie Pepin, Julie Lavoie, Univ de Montréal, Montréal, QC, Canada; Mariane Bertagnolli, CIUSSS Nord-de-l’Île-de-Montréal, Montréal, QC, Canada

P105 Sex Hormonal Changes of Calcium-Sensing Receptor and Renin-Angiotensin-Aldosterone System in Salt-Sensitive Rats via Exposure of High Salt Diets
Charles Okechukwu, North Carolina Central Univ, Durham, NC

P106 Elevated Fasting Glucose and Proteinuria in Offspring Born to Gestational Hypertensive African Green Monkeys
Chelsea C Weaver, Univ of Kentucky, Lexington, KY; Jessica C Taylor, Primates Plus, LLC, Lexington, KY; Jeffrey L Osborn, Univ of Kentucky, Lexington, KY

P107 Role for Endothelin B Receptors in the Maintenance of Heart Rate Baroreflex Function
Bryan K Becker, Chunhua Jin, David M Pollock, Univ of Alabama Birmingham, Birmingham, AL

P108 Identify Hypertension Risk from Health Exam Results
Thanh Nguyen, Informatics Inst, Univ of Alabama at Birmingham, Birmingham, AL; Tongbin Zhang, Sch of 1st Clinical Medical Sciences, Sch of Information and Engineering, Wenzhou Medical Univ, Wenzhou, Zhejiang, China; Eric Zhang, Jianyi Zhang, Dept of Biomedical Engineering, Univ of Alabama at Birmingham, Birmingham, AL; Chuandi Pan, Dept of Computer Technology and Information Management, The First Affiliated Hosp of Wenzhou Medical Univ, Wenzhou, Zhejiang, China; Jake Chen, Informatics Inst, Univ of Alabama at Birmingham, Birmingham, AL

P109 Hypertension in a Large Cohort of Patients With Lipoprotein(a) at a Tertiary Academic Center
Samip Sheth, Marjorie Risman, Daniel Rader, Douglas Jacoby, Univ of Pennsylvania, Philadelphia, PA

P110 Classical Dendritic Cells Mediate Hypertension by Promoting Oxidative Stress and Renal Fluid Retention
Xiaoan Lu, Nathan Rudemiller, Jamie Privratsky, Jiafa Ren, Yi Wen, Robert Griffiths, Michael D Gunn, Steven D Crowley, Duke Univ, Durham, NC

P111 Renal Perfusion Pressure Determines Renal Leukocyte Infiltration During Angiotensin II-Induced Hypertension in Sprague Dawley Rats
Satoshi Shimada, Justine M Abais-Battad, Ammar J Alsheikh, Megan Stumpf, Theresa Kurth, Medical Coll of Wisconsin, Milwaukee, WI; Louise Evans, Univ of Minnesota, Minneapolis, MN; David L Mattson, Allen W Cowley Jr, Medical Coll of Wisconsin, Milwaukee, WI

P112 Sex Differences and the Role of G Protein-Coupled Estrogen Receptor in Arterial Stiffening
Benard O Ogola, Gabrielle L Clark, Caleb M Abshire, Nicholas R Harris, Kaylee L Gentry, Dylan Lawrence, Margaret A. Zimmerman, Carolyn L Bayer, Kristin S Miller, Sarah H. Lindsey, Tulane Sch of Med, New Orleans, LA

P113 Anti-Hypertensive Properties of Brown Adipose Tissue
Jie Zhang, Marko Oydanich, Koichi Nishimura, Tolga Berkman, Dorothy E Vatner, Stephen F Vatner, Rutgers Univ-New Jersey Medical Sch, Newark, NJ

P114 Chemerin Leads to a Contraction of the Uterine Artery After Stimulation With Serotonin
Vanessa Dela Justina, Fernanda Priviero, Augusta Univ, Augusta, GA; Victor V. Lima, Fernanda Giachini, Federal Univ of Mato Grosso, Barra do Garcas, Brazil; Clinton Webb, Augusta Univ, Augusta, GA

P115 Troponin I and Dystrophin Proteolysis by Matrix Metalloproteinase 2 Contribute to Chronic Cardiac Remodeling and Dysfunction in Renovascular Hypertension
Juliana Montenegro Parente, Marcela Maria Mello, Ana Carolina Omoto, Rubens Fazan, Michele Mazzaron de Castro, Univ of Sao Paulo, Ribeirao Preto, Brazil

P116 Inhibition of Ang II-Induced Mitochondrial Fission and Endoplasmic Reticulum Stress Attenuates Protein Aggregate Accumulation, Inflammation, and Senescence in Vascular Smooth Muscle Cells
Stephanie Michelle Cicales, Hannah Cooper, Tatsuow Kawai, Temple Univ, Philadelphia, PA; Masashi Miyao, Kyoto Univ, Kyoto, Japan; Kyle Preston, Victor Rizzo, Rosario Scalia, Satoru Eguchi, Temple Univ, Philadelphia, PA
P117 Successful Comprehensive Management of Labile Severe Hypertension With Zero-Salt Diet, Stress Reduction, and Antihypertensive Combination of Sacubitril-Valsartan and Nebivolol

P118 Angiotensin-(1-7) Improves Cardiometabolic Function in Aged Mice
Amanda J Miller, Sarah S Bingaman, Melissa C White, Amy C Arnold, Pennsylvania State Univ College, Hershey, PA

P119 Prevalence and Coincidence of Arterial Hypertension and Orthostatic Hypotension in Pre and Centenarians: Preliminary Results of Moscow Centenarian Study
Ksenia Eruslanova, Nadejda Runichina, Julia Kotovskay, Olga Tkacheva, Rg NKC, Moscow, Russian Federation

P120 Leukocyte and Lymphocyte-Derived Extracellular Vesicles are Elevated in Angiotensin-Induced Hypertension
Sabrina La Salvia, Luca Musante, Joanne Lannigan, Robert M Carey, Brant Issakson, Univ of Virginia, Charlottesville, VA; Thu H Le, Univ of Rochester, Rochester, NY; Uta Erdrügger, Univ of Virginia, Charlottesville, VA

P121 A Novel Delivery of Alpha-Calcitonin Gene Related Peptide (α-CGRP) Using Alginate Microcapsules Protects Against Pressure-Overload Induced Heart Failure
Ambirsh Kumar, Univ of South Carolina Dept of Cell Biology and Anatomy, Columbia, SC; Marwa Belhaj, Univ of South Carolina, Columbia, SC; Donald J Dipette, Univ of South Carolina Dept of Internal Med, Columbia, SC; Jay D Potts, Univ of South Carolina Dept of Cell Biology and Anatomy, Columbia, SC

P122 Downregulation and Inhibition of PKCa Causes Increased Ca2+-Sensing Receptor-Mediated Vascular Relaxation in Aged Dahl Salt-Sensitive Rats
Samuel O Odutola, Lakeshea E Bridges, Emmanuel M Awumey, North Carolina Central Univ, Durham, NC

P123 Traditional Chinese Herbal Qian Yang Yu Yin Granules Treat Renal Damage in Spontaneously Hypertensive Rats by Inhibiting Renal Fibrosis
Yuan Fang, The First Clinical Medical Coll, Nanjing Univ of Chinese Med, Nanjing, China; Kang Ding, The Third Affiliated Hosp of Nanjing Univ of Chinese Med, Nanjing, China; Zhuyuan Fang, Han Wang, Biao Zhang, Affiliated Hosp of Nanjing Univ of Chinese Med, Nanjing, China

P124 Nlrp3 Activation by Endothelin-1 Mediates Neutrophil Recruitment in Cavernosal Tissue of DOCA/salt Mice
Rafael Sobrano Fais, Raphael Ferreira Gomes, Carlos Wagner Wanderley, Rita de Cássia Tostes, Fernando Silva Carneiro, Ribeirao Preto Medical Sch, Ribeirao Preto, Brazil

P125 Determining Patient and Provider Acceptance of Therapeutic Drug Monitoring to Improve Medication Adherence
Kevin Schesing, Shishir Sharma, Hamza Lodhi, Bryan Wu, Sandeep R Das, Bryan Elwood, Scott A Smith, Ethan A Halm, Wanpen Vongpatanasin, Univ of Texas Southwestern, Dallas, TX

P126 Statines Reduce Cardiac Dysfunction After Preeclamptic Pregnancy
Kristin Kraeker, Max Delbrueck Ctr, Berlin, Germany; Till Schuette, Charite Univsmedizin, Berlin, Germany; Florian Herse, Max Delbrueck Ctr, Berlin, Germany; Michaela Golic, Charite Univsmedizin, Berlin, Germany; Anna Birukov, Dominik N Mueller, Max Delbrueck Ctr, Berlin, Germany; Ralf Dechend, Charite Univsmedizin, Berlin, Germany; Nadine Haase, Max Delbrueck Ctr, Berlin, Germany

P127 Serpinc1/Antithrombin III Attenuates Salt-Induced Hypertension
Feng Wang, Yiwei Kong, Junhui Li, Hong Xue, Xuanchen Liu, Kristie USA, Aron M Geurts, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

P128 Increasing Pressure to Lower Blood Pressure: Assessing Blood Pressure Goals at Resident Physician Clinic
Emily Schultz, Lien Trieu, Matthew Snyder, Sandrine Lebrun, Rebecca Mazurkiewicz, Lenox Hill Hosp, New York, NY

P129 White Coat Effect Causes Excessive Antihypertensive Treatment in Low Risk Patients
Mariano Duarte, Hosp de Clinicas Facultad de Medicina UBA, Ciudad Autonoma de Buenos Aires, Argentina; Lidia Sarotto, Neurooftalmologia Hosp de Clinicas Facultad de Medicina UBA, Ciudad Autonoma de Buenos Aires, Argentina; Analia Aquieri, Javier Coyle, Hosp de Clinicas Facultad de Medicina UBA, Ciudad Autonoma de Buenos Aires, Argentina; Pablo Scacchi Bernasconi, Facultad de Medicina UBA, Ciudad Autonoma de Buenos Aires, Argentina; Carlos Reyes Tosco, Facultad de Medicina UBA, Ciudad Autonoma de Buenos Aires, Argentina

P130 Renal Endothelin-1 contributes to Salt Sensitivity in Male Sprague-Dawley Rats Under High-Fat Conditions
Reham H Soliman, Chunhua Jin, Crystal M Taylor, David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL
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**Poster Presentations (continued)**

**P131**  
A Selective Chymase Inhibitor, TEI-f00806, Eliminates the Ang II Production From Rat Ang-(1-12) in Bone Marrow Tissue  

**P132**  
Differential and Sex Dependent Expression of Vasopressin Receptors by B Cells, NK Cells, and Dendritic Cells  

**P133**  
The Impact of Cigarette Smoking-Oral Contraceptive Combination on Cardiac Remodeling in Premenopausal Female Mice  
Emma Abdi, Abdullah Kaplan, Nada Habeichi, Rana Ghali, Dina Muhieddine, Abdo Jurjus, Ahmad Husari, Fouad Zouein, Amercan Univ of Beirut, Beirut, Lebanon

**P134**  
Selective Inhibition of Angiotensin-Converting Enzyme C-Domain in Combination With Sacubitril Prevents Hypertension-Associated Vascular Damage and Reduces Systolic Blood Pressure  
Rheure Alves-Iopes, Augusto C Montezano, Karla B Neves, Adam Harvey, Francisco Rios, Univ of Glasgow, Glasgow, United Kingdom; Lauren Arendse, Univ of Cape Town, Cape Town, South Africa; Lia Camargo, Univ of Glasgow, Glasgow, United Kingdom; Marko Poglitsch, Attoquant Diagnostics GmbH, Vienna, Austria; Mario Ehlers, Immune Tolerance Network, San Francisco, CA; Edward Sturrock, Univ of Cape Town, Cape Town, South Africa; Rhiannon M Touyz, Univ of Glasgow, Glasgow, United Kingdom

**P135**  
Angiotensin II, But Not Methoxamine Or 5-HT, Causes ATP Release in the Rat Mesenteric Arterial Bed  
Katherine A Kummer, Gerald H Wilken, Heather Macarthur, Saint Louis Univ Sch of Med, St. Louis, MO

**P136**  
Comparison of Pharmacy Refill Data With Therapeutic Drug Monitoring (TDM) in Assessing Non-Adherence to Cardiac Drugs in Patients With Uncontrolled Hypertension  
Bryan Wu, Shishir Sharma, Hamza Lodh, Kevin Schesing, Sandeep Das, Univ of Texas Southwestern, Dallas, TX; Nancy Brown, Vanderbilt Univ Medical Ctr, Nashville, TN; Elizabeth Moss, Ethan Halm, Wanpen Vongpatanasin, Univ of Texas Southwestern, Dallas, TX

**P137**  
Immune Response Factors in Patients With Arterial Hypertension, Diabetes Mellitus and Acute Coronary Syndrome  
Svetlana Giova, Sergey Shlyk, Larisa Khaisheva, Rostov State Medical Univ, Rostov - On - Don, Russian Federation

**P138**  
Perivascular Adipose Tissues (pvats) Home Distinct ‘Active’ Immune Cell Niches, Denser Than Non-pvat Adipose Tissues of Healthy Rats  
Ramya Kalyana Kumar, Cheryl E Rockwell, Stephanie W Watts, Michigan State Univ, East Lansing, MI

**P139**  
Cytochrome B5 Reductase 3 Biases Activation of Soluble Guanylyl Cyclase in Resistance Arteries  
Brittany G Durgin, Scott A Hahn, Univ of Pittsburgh, Pittsburgh, PA; Rafael De Cabo, Translational Gerontology Branch, Nati Inst on Aging, Baltimore, MD; Adam C Straub, Univ of Pittsburgh, Pittsburgh, PA

**P140**  
The Role of Pumpkin Flesh in Reducing Mean Arterial Pressure in a Genetic Rat Model for Hypertension  
Soweto Thomas, Tuskegee Univ, Tuskegee, AL

**P141**  
Toll Like Receptor 4 Mediated Autophagy Contributes to Hypertension-Induced Kidney Injury  
Suravi Majumder, Sathnur Basappa Pushpakumar, Gregory Weber, Utpal Sen, Univ of Louisville, Louisville, KY

**P142**  
Progression of Diabetic Kidney Disease in the Type 2 Diabetic Nephropathy Rat Model  
Denisha Spires, Medical Coll of Wisconsin, Milwaukee, WI; Darla Liatosvskaya, Medical Univ of South Carolina, Charleston, SC; Vladislav Levchenko, Oleg Palygin, Alexander Starschenko, Medical Coll of Wisconsin, Milwaukee, WI

**P143**  
Multifaceted Roles of Gut Microbiome and Bacterial Metabolites in Pulmonary Arterial Hypertension  
Seungbum S Kim, Univ of Florida, Gainesville, FL; Jacquelyn M Wadejko, Univ of Georgia, Athens, GA; Katty Rigatto, Federal Univ of Health Sciences of Porto Alegre, Porto Alegre, Brazil; Jordan Ray, Mayo Clinic, Jacksonville, FL; Marcelo B Gazzana, Marli M Knorst, Federal Univ of Rio Grande do Sul, Porto Alegre, Brazil; Elaine M Richards, Univ of Florida, Gainesville, FL; Brian Shapiro, Mayo Clinic, Jacksonville, FL; Carl J Pepine, Mohan K Rizada, Univ of Florida, Gainesville, FL

**P144**  
Integrin β1 in Tubular Epithelium Protects From Acute Injury Induced Fibrosis  
Riya J Palamuttam, Vanderbilt Univ Medical Ctr, Nashville, TN; Sijo Mathew, North Dakota State Univ, Fargo, ND
P145  Notch3 Mutation Is Involved in Pulmonary Vascular Dysfunction and Development of Pulmonary Arterial Hypertension
Hannah E Morris, Karla B Neves, Inst of Cardiovascular and Medical Sciences (ICAMS), Univ of Glasgow, Glasgow, United Kingdom; Margaret Nilsen, Strathclyde Inst of Pharmacy and Biomedical Sciences (SIPBS), Univ of Strathclyde, Glasgow, United Kingdom; Augusto C Montezano, Inst of Cardiovascular and Medical Sciences (ICAMS), Univ of Glasgow, Glasgow, United Kingdom; Anne Joutel, Inserm U1266, Inst of Psychiatry and Neurosciences of Paris, Paris, France; Mandy R MacLean, Strathclyde Inst of Pharmacy and Biomedical Sciences (SIPBS), Univ of Strathclyde, Glasgow, United Kingdom; Rhian M Touyz, Inst of Cardiovascular and Medical Sciences (ICAMS), Univ of Glasgow, Glasgow, United Kingdom

P146  Dopaminergic Stimulation Increases Gastrin Secretion via a PKA-PPAR-Alpha Pathway
Peng Xu, John J Glidea, Wei Yue, Univ of Virginia, Charlottesville, VA; Pedro A Jose, The George Washington Univ, Sch of Med & Health, Washington DC; Robin A Felder, Univ of Virginia, Charlottesville, VA

P147  Changes in Renal Function Precede the Development of Hypertension in Female Mice With Systemic Lupus Erythematosus
Elena Dent, Michael Ryan, Univ of Mississippi Medical C, Jackson, MS

P148  Transcriptomic and Proteomic Analysis of CD4+ T Cells to Identify Sex Differences in Angiotensin II Signaling Pathways

P149  Factors Associated With Future Cardiovascular Disease in Women With Hypertensive Disorders of Pregnancy and Gestational Diabetes
Ugochinyere Vivian Ukah, McGill Univ, Montreal, QC, Canada; Natalie Dayan, McGill Univ Health Ctr, Montreal, QC, Canada; Nathalie Auger, Inst Nat de Santé Publique du Québec, Montreal, QC, Canada; Robert Platt, McGill Univ, Montreal, QC, Canada

P150  Genes of a Brown Norway Chromosome 2 Fragment Introgressed Into Hypertensive Dahl Salt-Sensitive Background Exert Pro-Inflammatory Effects When Stimulated by a High-Salt Diet
Olga Berillo, Sofiane Ouerd, Ku-Geng Huo, Asia Rehman, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Chantal Richer, Daniel Sinnett, Sainte-Justine Univ Hosp, Montreal, QC, Canada; Anne E Kwiktek, Dept of Internal Med, Univ of Iowa, Iowa, IA; Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L Schiffrin, Lady Davis Inst for Medical Res, Jewish General Hosp, Montreal, QC, Canada

P151  Cardiac Outcome in Offspring of Diabetic Pregnancy
Till Schuette, Charite - Univ Med, Berlin, Germany; Kristin Kraeker, Nadine Haase, Florian Herse, Natalia Alenina, Dominik N Mueller, Michael Bader, Max Delbrueck Ctr, Berlin, Germany; Michael Schupp, Michaella Golic, Ralf Dechend, Charite - Univ Med, Berlin, Germany

P152  Forkhead Box Subclass O Transcription Factors Differentially Regulate Soluble Guanylyl Cyclase Expression in Smooth Muscle
Joseph Galley, Subramaniam Sanker, Megan Miller, Adam Straub, Univ of Pittsburgh, Pittsburgh, PA

P153  Early Changes in Left-Atrial and Left-Ventricular Geometry and Function in Women After Preeclampsia as Detected by Cardiac Magnetic Resonance Imaging
Anna Birukov, Stephanie Funk, Andras Balogh, Lajos Markó, Michaela Golic, Natalia Rakova, Nicola Wilck, Edyta Blaszczyk, Carolin Lim, Sara Weiss, ECRC, Charité Univ and MDC, Berlin, Germany; Steffen Daub, Ctr for Cardiology 1, Molecular Cardiology, Medical Ctr of the Johannes Gutenberg Univ, Mainz, Germany; Kristin Kräker, Nadine Haase, Dominik N. Müller, Florian Herse, Jeanette Schulz-Menger, Ralf Dechend, ECRC, Charité Univ and MDC, Berlin, Germany

P154  Plasma and Placental (Pro)Renin and Soluble (Pro)Renin Receptor are Upregulated in Preeclamptic Pregnancy
Ahmed F Pantho, Syeda H Afrozeh, Texas A&M Univ Coll of Med, Temple, TX; David CC Sprague, Orion Inst for Trans Med, Temple, TX; Thomas J Kuehl, Baylor Scott & White Health, Temple, TX; Lorena Aamaral, Tarik Ibrahim, Babette LaMarca, Univ of Mississippi Medical Ctr, Jackson, MS; Tsutomu Nakagawa, Faculty of Applied Biological Sciences, Gifu Univ, Gifu, Japan; David C Zawieja, Texas A&M Univ Coll of Med, Temple, TX; Mohammad N Uddin, Orion Inst for Trans Med, Temple, TX

P155  Chronic Muscadine Grape Extract Intake Improves Diastolic Function Associated With Lower Circulating Aldosterone in Hannover Sprague Dawley Male Rats
Fatima Ryalat, Liliya M Yamaleyeva, Nildris Cruz-Diaz, E Ann Tallant, Patricia E Gallagher, Debra I Diz, Wake Forest Univ, Winston Salem, NC

P156  Long-Term Blood Pressure Outcomes and Costs Associated With a Barber-Pharmacist Hypertension Intervention: 10-Year Simulation of the Los Angeles Barber Trial
Kelsey B Bryant, Columbia Univ Medical Ctr, New York, NY; Dhruv S Kazi, Beth Israel Deaconess, Boston, MA; Valy Fontil, Joanne Penko, Univ of California San Francisco, San Francisco, CA; Ciantel A Blyler, Kathleen Lynch, Joseph Ebinger, Norma B Moy, Florian Rader, Cedars-Sinai Medical Ctr, Los Angeles, CA; Kirsten Bibbins-Domingo, Univ of California San Francisco, San Francisco, CA
Poster Presentations (continued)

P157 Role of P47phox in Angiotsensin II Induced Cardiac Hypertrophy and Fibrosis in Mice
S Santosh Reddy, Heena Agarwal, Anant Jaiswal, Manoj Kumar Barthwal, CSIR-Central Drug Res Inst, Lucknow, India

P158 Preeminent Role of the Cardiorenal Axis in the Antihypertensive Response to an Arteriovenous Fistula: An In Silico Analysis
John S Clemmer, W. Andrew Pruet, Robert L Hester, Thomas E Lohmeier, Univ of Mississippi Medical Ctr, Jackson, MS

P159 Reversing Ocular Hypertension and Blindness by Hydrogen Sulfide
Mahavir Singh, Akash K George, Rubens P Homme, Naira Metrevelli, Suresh C Tyagi, Univ of Louisville, Louisville, KY

P160 Dual-Specificity Protein Phosphatase 5 Regulates Renal Vessel Myogenic Response via Direct Modulating Extracellular Signal-Related Kinase and Protein Kinase C
Wenjun Gao, Huawei Zhang, Xiaochen He, Shaoxun Wang, Guo Ya, George W Booiz, Richard J Roman, Fan Fan, Univ of Mississippi Medical Ctr, Jackson, MS

P161 Inhibition of Progesterone Induced Blocking Factor Causes Clinical Characteristics of Preeclampsia in Sprague Dawley Rats
Cunningham Jr., Tarek Ibrahim, Ramana R Vaka, Babbette LaMarca, Medical Ctr-UMMC, Jackson, MS

P162 Placental Ischemia During Pregnancy Leads to Impaired Cardiac Function and Global Longitudinal Strain
Bhavisha A Bakrania, Michael E Hall, Univ of Mississippi Med. Ctr, Jackson, MS; Sajid Shahul, Univ of Chicago, Chicago, IL; Joey P Granger, Univ of Mississippi Med. Ctr, Jackson, MS

P163 Masked Uncontrolled Hypertension in Treated Hypertensive Patients Have Heightened Out-Of-Clinic Aldosterone Levels
Mohammed Siddiqui, Tanja Dudenbostel, Eric K Judd, Suzanne Oparil, David A Calhoun, Univ of Alabama at Birmingham, Birmingham, AL

P164 Sexual Dimorphic Role of CD14 in Dahl SS Hypertension

P165 Vascular Endothelial Exosomes Propogate Inflammation in Vascular Smooth Muscle Cells Through Up-Regulation of HMGB1
Michael Boyer, Temple Univ, Philadelphia, PA; Yayoi Kimura, Tomoko Akiyama, Yokohama City Univ, Yokohama City, Japan; Satoru Eguchi, Victor Rizzo, Temple Univ, Philadelphia, PA

P166 Paracrine Endothelial Microrna214 Exosomes Modulate Smooth Muscle Cell Function in Pulmonary Arterial Hypertension
Sanghamitra Sahoo, Patrick Pagano, Univ of Pittsburgh, Pittsburgh, PA

P167 Trends in Hypertension Prevalence, Awareness, and Control Based on the New Definition of Hypertension: A National Health and Nutrition Examination Survey-Based Study
Olajide Buhari, Jacobi Medical Ctr/Albert Einstein Coll of Med, Bronx, NY; Adebayo Atanda, George Washington Univ Hosp, Washington DC, DC; Chioma Onyekwelu, Vidant Medical Ctr, Vidant, NC; Adam Gershon, Robert Faillace, Jacobi Medical Ctr/Albert Einstein Coll of Med, Bronx, NY

P168 Drug-Drug Interactions in Hospitalized Cardiac Patients and It’s Clinical Management
Kavya Reddy VI, Togari Veera Mallappa Memorial Coll of Pharmacy, Bellary, India

P169 Renal Denervation Attenuates a Catabolic State in Mice Fed High Salt
Daisuke Yamazaki, Dept of Pharmacology, Faculty of Med, Kagawa Univ, Kitagun, Japan; Kento Kitada, Cardiovascular and Metabolic Disorders, Duke-NUS Medical Sch, College Rd, Singapore; Norihiko Morisawa, Div of Nephrology & Hypertension, Dept of Internal Med, Tokyo, Japan; Yoshishide Fujisawa, Life Science Res Ctr, Faculty of Med, Kagawa Univ, Kitagun, Japan; Daisuke Nakano, Dept of Pharmacology, Faculty of Med, Kagawa Univ, Kitagun, Japan; Hirofumi Hitomi, Dept of iPS Stem Cell Regenerative Med, Kansai Medical Univ, Osaka, Japan; Jens Titze, Cardiovascular and Metabolic Disorders, Duke-NUS Medical Sch, College Rd, Singapore; Akira Nishiyama, Dept of Pharmacology, Faculty of Med, Kagawa Univ, Kitagun, Japan

P170 Cytochrome P450 1b1-Dependent Sex Differences in Norepinephrine-Induced Hypertension
Purnima Singh, Shubha Ranjan Dutta, Kafait U Malik, Univ of Tennessee, Memphis, TN

P171 Gut Microbiota-Derived Hydrogen Sulfide is Reduced in Spontaneously Hypertensive Rats
Basak Donertas, Wendi L. Malphurs, David M. Baekey, David Julian, Jasenka Zubcevic, Univ of Florida, Gainesville, FL

P172 Is the Elastin Receptor Complex a Bridge Between Perivascular Adipose Tissue and the Artery?
Paul Weber, Emma Flood, Janice Thompson, Stephanie Watts, Michigan State Univ, East Lansing, MI

P173 Trimethylamine N-Oxide (TMAO) Impairs Endothelium-Dependent Relaxation of the Mesenteric Artery in Lean and Db/db Mice
Fernanda Priviero, Vanessa Della Justina, Olufunke Arishe, Clinton Webb, Augusta Univ, Augusta, GA
**Poster Presentations (continued)**

**P174** Incidence of Hyponatremia on Spironolactone in Patients With a Prior Episode of Chlorthalidone-Induce Hyponatremia  
Faris Matanes, Mohammed Siddiqi, Tanja Dudenbostel, David Calhoun, Suzanne Oparil, Univ of Alabama at Birmingham, Birmingham, AL

**P175** Resistance Hypertension and Achievement of Target Blood Pressure  
Oksana Rekovets, Olena Torbas, Svitlana Kushnir, Galina Primak, Nina Krushinska, Yuriy Sirenko, Inst of Cardiology, Kyiv, Ukraine

**P176** Familial Autonomic Ganglionopathy Caused by Rare CHRNA3 Genetic Variants. Novel Genetic Cause of Neurogenic Orthostatic Hypotension  
Cyndya A Shibao, John Phillips, Joy D Cogan, John H Newman, Rizwan Hamid, Jens Meiler, John A Capra, Jonathan Sheehan, Vanderbilt Univ, Medical Ctr, Nashville, TN; Yaping Yan, Baylor Coll of Med, Baylor, TX; Francesco Vetrini, Baylos Coll of Med, Baylor, TX; Bonnie Black, Karen Joos, David Robertson, Italo Biaggioni, Vanderbilt Univ, Medical Ctr, Nashville, TN

**P177** The Dissociation of Heart Rate and Blood Pressure Masks the Regulatory Role of Heart Rate in Systemic Hemodynamics  
Muhammad Absar Anwar, Kalaimani Elango, Sheriff Eesayed, Rahil Ahmed, Peter Osmond, Univ at Buffalo, Erie County Medical Ctr, Buffalo, NY; Joseph L Izzo Jr., State Univ NY at Buffalo, Buffalo, NY

**P178** Mineralocorticoid Receptor Antagonism Improved the Metabolic Function in a Mouse Model With Chronic Kidney Disease and Obesity  
Roberto Palacios Ramirez, Benjamin Bonnard, INSERM 1138, Paris, France; Frederic Jaissier, INSERM DR6, Paris, France

**P179** Time Restricted Feeding Improves Blood Pressure and Heart Rate Rhythms as Well as Activation of NOS3 and AMP Kinase in Mice on a Chronic High Fat Diet  
Paramita Pati, Dingguo Zhang, Jackson Colson, Randee Sedaka, Cardio-Renal Physiology & Med, Div of Nephrology, Univ of Alabama Birmingham, Birmingham, AL; Martin E Young, Div of Cardiovascular Disease, Dept of Med, Univ of Alabama Birmingham, Birmingham, AL; Karen L Gamble, Div of Neurobiology, Dept of Psychiatry, Univ of Alabama Birmingham, Birmingham, AL; Shannon M Bailey, Div of Molecular and Cellular Pathology, Dept of Pathology, Univ of Alabama Birmingham, Birmingham, AL; David M Pollock, Jennifer S Pollock, Cardio-Renal Physiology & Med, Div of Nephrology, Univ of Alabama Birmingham, Birmingham, AL

**P180** Deficiency of Sirtuin 3 Sensitizes Angiotensin II-Induced Cardiac Pericyte-Fibroblast Transition and Diastolic Dysfunction via Iron Overloading  
Han Su, Heng Zeng, Rebecca A Worsham, Jian Xiong X Chen, Univ Mississippi Medical Ctr, Jackson, MS

**P181** Optimizing Precision of Hypertension Care to Maximize Blood Pressure Control (OPTI-BP): A Pilot Study Utilizing a Smartphone App  
Mai Mehanna, Yiqing E Chen, Yan Gong, Eileen M Handberg, Brittny Roth, Univ of Florida, Gainesville, FL; Jessica De Leon, Florida State Univ, Tallahassee, FL; Steven M Smith, Univ of Florida, Gainesville, FL; Helen Paulson, Tallahassee Memorial Hosp, Tallahassee, FL; Jose Montilla-Crespo, Univ of Florida, Jacksonville, FL; Jonathan G Harrell, Rhonda M Cooper-Dehoff, Univ of Florida, Gainesville, FL

**P182** Quantifying Differences in Blood Pressure by Using Different Blood Pressure Cuff Sizes in Children  
Ruchi Gupta Mahajan, Kashif Iqubal, Jeffrey Kern, Flushing Hosp Medical Ctr, Flushing, NY

**P183** Retinol Binding Protein 7, a PPARγ Target Gene Protects Against Endothelial Dysfunction Induced by Mitochondrial Uncoupling  
Sebastiao D Silva Junior, Medical Coll of Winscosin, Milwaukee, WI; Anand R Nair, Larry Agbor, Univ of Iowa, Iowa City, IA; Curt D Sigmund, Medical Coll of Winscosin, Milwaukee, WI

**P184** Exploring Sex Differences in Immune Cell Profiles of Male, Premenopausal Female, and Postmenopausal Female Mice to Understand Susceptibility to Immune Mediated Hypertension  
Megan A Sylvester, Dennis P Follow, Josh A Uhlor, Melissa J Romero-Aleshire, Jennifer Uhrlaub, Janko Nikolich-Zugich, Heddwlen L Brooks, Univ of Arizona, Tucson, AZ

**P185** The Effect of Anti-Interleukin-17A Biologic Therapies on Cardiovascular Outcomes in Patients With Psoriasis  
Charles D Smart, Vanderbilt Univ Sch of Med, Nashville, TN; Megan Shuey, Fernando Eliovich, Nancy Cox, Meena S Madhur, Vanderbilt Univ Medical Ctr, Nashville, TN

**P186** Specific Knockout of Sox6 in Renin Expressing Cells Cause a Decrease in Renin Expression and Changes to Vascular Reactivity  
Luz Saavedra, Mohammad Saleem, Liang Xiao, Mingfang Ao, Jose A Gomez, Vanderbilt Univ Medical Ctr, Nashville, TN

**P187** Incidence and Predictors of Diuretic-Induced Hyponatremia  
Faris Matanes, Mohammed Siddiqi, Tanja Dudenbostel, David Calhoun, Suzanne Oparil, Univ of Alabama at Birmingham, Birmingham, AL

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Poster Presentations (continued)

P188 Electrical Stimulation of Sub-Diaphragmatic Vagal Trunk Alleviates Hypertension in the SHR Elliott W Dirr, Ladan G Jiracek, David M Baekkey, Kevin J Otto, Jasenka Zubcevic, Univ of Florida, Gainesville, FL

P189 Human Endothelin-1 Overexpression in Mice Changed Gene Expression in Mesenteric Arteries Olga Berillo, Suellen C Coelho, Ku-Geng Huo, Sofiane Ouerd, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Charanch Richer, Div of Hematology-Oncology, Res Ctr, CHU Ste-Justine, Montreal, QC, Canada; Nada Mahjoub, Nathann S Ferreira, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Daniel Sinnett, Div of Hematology-Oncology, Res Ctr, CHU Ste-Justine, Dept of Pediatrics, Faculty of Med, Univ de Montreal, Montreal, QC, Canada; Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L Schiffrin, Lady Davis Inst for Medical Res, Jewish General Hosp, Montreal, QC, Canada

P190 Transcriptomic Data Analysis Reveals Sex-Related Differences in the Interplay Between Toll-Like Receptor 4 and Heat-Shock Protein 70 in the Aorta of Type 2 Diabetic Donors Amanda Almeida De Oliveira, Josemar Faustino, Kenia Pedrosa Nunes, Florida Inst of Technology, Melbourne, FL


P192 miR-29b Restores Endothelium Dependent Vasodilation in Dahl Salt-Sensitive Rats David M Jensen, Mingyu Liang, Michael Widianisky, Jingli Wang, Medical Coll of Wisconsin, Milwaukee, WI

P192 Implications of a Simplified Hypertension Screening Approach for Low-and Middle-Income Countries Olive Tang, Edgar R Miller III, Lawrence Appel, Dinesh Neupane, Yifei Lu, Tammy Brady, Johns Hopkins Univ, Baltimore, MD; Andrew Moran, Columbia Univ, New York, NY; Cheryl Dennison-Himmelfarb, Kunihoro Matsushita, Johns Hopkins Univ, Baltimore, MD

P193 A Novel Mechanism for the Pathogenesis of Preeclampsia: Cell-Free Mitochondrial DNA Mediated Toll Like Receptor 9 Activation Matthew Rappelt, Andrews Beyer, David Guterman, Laura Norwood Toro, Alexa Derayunan, Jennifer McIntosh, Medical Coll of Wisconsin, Milwaukee, WI

P194 Endothelin as a Persistent Biomarker of Hypoxia Juan H Morales-Loredo, David T Jones, Thomas L Resta, Nancy L Kanagy, Laura V Gonzalez Bosc, Univ of New Mexico Health Sciences Ctr, Albuquerque, NM

P195 Overexpression of ACE2 Boosts the Therapeutic Effects of Endothelial Progenitor Cells Derived Exosomes on Hemorrhagic Stroke Junji Wang, Wright State Univ, Dayton, OH; Qunwen Pan, Bin Zhao, Xiaotang Ma, Affiliated Hosp of Guangdong Medical Univ, Zhanjiang, China; Ji C Bihl, Wright State Univ, Dayton, OH

P196 Hot Yoga and Hypertension: Exploration of a Novel Lifestyle Intervention Stacy Hunter, A Tobi Fadeyi, James Shadiow, Texas State Univ, San Marcos, TX

P197 TRPM7 is Involved in the Effects of VEGF and EGF in Vascular Cells Francisco J Rios, ZhiGuo Zou, Karla B Neves, Rheure Alves-Lopes, Livia L Camargo, Augusto C Montezano, Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom

P198 High Glucose Degrades (PRO) Renin Receptor by Autophagy and Ubiquitin Proteasome System in Inner Medullary Collecting Duct Cells Tao Luo, Helmy Siragy, Div of Endocrinology and Metabolism, Univ of Virginia Health System, Charlottesville, VA

P199 Gene Variants in Human Renal Proximal Tubule Alpha ENaC are Associated With Inverse Salt Sensitivity of Blood Pressure Peng Xu, Univ of Virginia, Charlottesville, VA; Charleston V Sudarikova, Daria V Ilatovskaya, Medical Univ of South Carolina, Charleston, SC; John J Gildea, Wei Yue, Katherine A Schiemmeyer, Robin A Felder, Univ of Virginia, Charlottesville, VA

P199 Angiotensin-(1-7) Via Angiotensin Type-1 Receptor Synergies Angiotensin Type-2 Receptor Response of Nitrite Formation in Kidney Cells Sanket N Patel, Tahir Hussain, Univ of Houston, Houston, TX

P199 Hormonal Contraceptive Use, Arterial Stiffness and Renin Angiotensin System Activity in Women Cindy Kalenga, Sandi Dumanski, Sharanya Ramesh, Jennifer M MacRae, Kara Nerenberg, Amy Metcalfe, Darlene Sola, Sofia B Ahmed, Univ of Calgary, Calgary, AB, Canada

P199 Profile Characteristics of the Population Assisted in the 2018 Less Pressure Campaign of the Brazilian Hypertension Society Grazia M Guerra RN, Heart Inst and São Camilo Univ Ctr, São Paulo, Brazil, Teresa Bartholomeu RPE, Sch of Physical Education and Sport of the Univ of São Paulo – EEFE-USP, São Paulo, Brazil; Helio C. Salgado MD, Medical of Sch Riberão Preto of Univ of São Paulo – FMRPUSP, Riberão Preto, Brazil; Frida Plavnik MD, Brazilian Society
of Hypertension - SBH, São Paulo, Brazil; Miriam Harumi Tsunemi RME, Inst of Mathematics and Statistics, Paulista State Univ UNESP – Botucatu, São Paulo, Brazil; Luciana Angelo RPs, Insto Sedes Sapientiae, São Paulo, Brazil; Kátia De Angelis D’Avila RPE, Federal Univ of São Paulo – UNIFESP, São Paulo, Brazil; Ana Luíze Berger RND, Heart Inst, São Paulo, Brazil; Leandro Brito RPE, Sch of Physical Education and Sport of the Faculty of the Univ of São Paulo – EEF USP, São Paulo, Brazil; Evandro Evandro Cesarino MD, Medical of Scholl Riberão Preto - São Paulo Univ – FMRPUSP, Riberão Preto, Brazil; Márcia Gowdak RND, Brazilian Society of Hypertension – SBH, São Paulo, Brazil; Luiz A. Bortolotto MD, Heart Inst, São Paulo, Brazil

P1103 Angiotensin II Type I Receptor Agonistic Autoantibody Blockade Improves Hypertension and Immune Activation in Postpartum Preeclamptic Rats
Mark W Cunningham Jr., Pooja Chinthakuntla, Karen Brooks, Brandon Fisher, Tarek Ibrahim, Lorena A Amaral, George W. Booz, Univ of Mississippi Medical Ctr, Jackson, MS

P1104 The Infusion of the Soluble Prorenin Receptor Increases Blood Pressure in High-Fat Fed Male Mice
Eva O Gatineau, Ming Gong, Frederique B Yiannikouris, Univ of Kentucky, Lexington, KY

P1105 Precise Hypertension Management by Impedance Cardiography
Diego Marquez, Facundo Iliquez, Diego Lacunza, Hosp San Bernardo, Salta, Argentina; Marcelo Orias, Sanatorio Allende, Cordoba, Argentina; Cesar A Romero, Emory Univ Sch of Med, Atlanta, GA

P1106 RND3/rhoe Deficiency Results in Mitochondrial Dysfunction in Placenta With Preeclampsia Through Modulating PPARY Pathway
Xiaojing Yue, Southern Medical Univ, Guangzhou, China; Xiangsheng Yang, Bietron Biosciences and Technology, Guangzhou, China; Yanlin Ma, Hainan Reproductive Medical Ctr, the Affiliated Hosp of Hainan Medical Univ, Haikou, China; Xia Chen, Liping Huang, Yanhong Yu, Southern Medical Univ, Guangzhou, China

P1107 Acute Psychosocial Stress Increases Circulating Inflammatory Mediators in the Humanized Sickle Cell Mouse Model
Patrick Molina, Brandon Fox, Randee Sedaka, Bryan Becker, Malgorzata Kasztan, Davide Botta, J. Miller Allan, David Pollock, Jennifer Pollock, Univ of Alabama at Birmingham, Birmingham, AL

P1108 Serum Immunoglobulins are Not Necessary for Experimental Hypertension
Yuhan Chen, Bethany Dale, Vanderbilt Univ, Nashville, TN; Matthew Alexander, Vanderbilt Univ Medical Ctr, Nashville, TN; Duncan Smart, Mingfang Ao, Meena S Madhur, Vanderbilt Univ, Nashville, TN

P1109 Cholesterol Regulation of Hydrogen Sulfide-Mediated Vasodilation
Perenkita J Mendolia, Laura V Gonzalez Bosc, Nancy L Kanagy, Univ of New Mexico, Albuquerque, NM

P1110 Tumor Necrosis Factor Alpha Blockade Improves Natural Killer Cell Activation, Hypertension, and Mitochondrial Oxidative Stress in a Preclinical Rat Model of Preeclampsia
Mark W Cunningham Jr., Aswathi Jayaram, Lorena A Amaral, Pooja Chinthakuntla, Karen Brooks, George Booz, Venkata Ramana Vaka, Tarek Ibrahim, Evangeline Deer, Denise C Cornelius, Babbette LaMarca, Univ of Mississippi Medical Ctr, Jackson, MS

P1111 Gestational Interventions and Fetal Outcomes in a Rat Model of Intrauterine Growth Restriction
Laura E Coats, Gwendolyn K Davis, Daniel R Bamrick, Bhavisha A Bakrana, Norma B Ojeda, Barbara T Alexander, UMMC, Jackson, MS

P1113 P2x7 Receptor Plays a Role in Angiotensin II-Induced Hypertension and Vascular Remodeling
Brandon Shokoples, Pierre Paradis, Lady Davis Inst, Montreal, QC, Canada; Ernesto L Schiffrin, Sir Mortimer B Davis-Jewish General Hosp, Montreal, QC, Canada

P1114 Impairment of Nitric Oxide Induces Volume Expansion in Normotensive Salt-Sensitivities by Activating NCC
Conghui Wang, Chinese PLA General Hosp, Beijing, China; Fumiko Mori, The Univ of Tokyo, Tokyo, Japan; Lei Kang, Peking Univ First Hosp, Beijing, China; Nobuhiro Ayuzawa, Sayoko Ogura, The Univ of Tokyo, Tokyo, Japan; Xiangmei Chen, Chinese PLA General Hosp, Beijing, China; Toshiro Fujita, The Univ of Tokyo, Tokyo, Japan; Tatsuo Shimosawa, Intl Univ of Health and Welfare, Tokyo, Japan; Suang Suang Koid, The Univ of Tokyo, Tokyo, Japan; Harumi Tsunemi RME, Inst of Mathematics and Statistics, Paulista State Univ UNESP – Botucatu, São Paulo, Brazil

P1115 Decreased Tubuloglomerular Feedback (TGF) Response in High-Fat Diet Induced Obesity
Sumit R Monu, Hong Wang, Pablo Ortiz, Henry Ford Health System, Detroit, MI

P1116 Early Life Stress Induces HDAC-Dependent Expression of Pro-Oxidant Genes in the Aorta
Thomas H Neder, Kelly A Hyndman, Univ of Alabama at Birmingham, Birmingham, AL; H Ho, Tripler Army Medical Ctr, Honolulu, HI; Abdalrahman Zarzour, Medical Coll of Georgia at Augusta Univ, Augusta, GA; Alan K Johnson, Univ of Iowa, Iowa City, IA; Neal Weintraub, Medical Coll of Georgia at Augusta Univ, Augusta, GA; David M Pollock, Jennifer S Pollock, Univ of Alabama at Birmingham, Birmingham, AL
Poster Presentations (continued)

P1117 **Dissimilarities Between and Carotid and Forearm Pressure-Decay and Windkessel Parameters: Implications for Circulatory Models**  
Joseph L Izzo Jr., Muhammad Absar Anwar, Sherif Elseayed, Peter Osmond, State Univ NY at Buffalo, Buffalo, NY; Benjamin Gavish, Yazmonti, Jerusalem, Israel

P1118 **The Role of Lateral Hypothalamic Leptin Circuitry in Autonomic Control of Cardiovascular Function**  
Uday Singh, Brandon A Toth, Kenji Saito, Donald A Morgan, Jingwei Jiang, Kamal Rahmouni, Huxing Cui, Univ of Iowa, Iowa City, IA

P1119 **Serum Gdf-15 is a Determinant Factor of Renal Vascular Resistance in Patients With Essential Hypertension**  
Satoru Shichijo, Ehime Univ Graduate Sch of Med, Dept of Cardiology, Pulmonology, Hypertension & Nephrology, Toon City, Japan; Takaumi Okura, Ehime Univ Graduate Sch of Med, Dept of Community and Emergency Med, Toon City, Japan; Tomoaki Naga, Fumiku Kondo, Ayu Makita, Osamu Yamaguchi, Kenichi Miyoshi, Ehime Univ Graduate Sch of Med, Dept of Cardiology, Pulmonology, Hypertension & Nephrology, Toon City, Japan

P1120 **Opioids Induce Proliferation in Vascular Smooth Muscle Cells Leading to an Increase in Myogenic Tone in Resistance Arteries**  
Jeremy C Tomcho, Jonnelle Edwards, Nicole R Bearss, Cameron G McCarthy, Bina Joe, Camilla F Wenceslau, Univ of Toledo Coll of Med and Life Science, Toledo, OH

P1121 **Identification of Renin Expressing Cells via In Situ Hybridization in the Brain of C57bl/6 Mice**  
Javier A Gomez, Pablo Nakagawa, Medical Coll of Wisconsin, Milwaukee, WI; Justin L Grobe, Univ of Iowa, Iowa City, IA; Curt D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI

P1122 **Sympathetic Vasodilation Improves Insulin-Mediated Microvascular Recruitment in the Forearm of Obese Subjects**  
Jay N Patel, Jorge E Celedonio, Emily C Smith, Suzanna Lonce, Sachin Paranjape, Luis Okamoto, Italo Biaggioni, Alfredo Gamboa, Vanderbilt Univ Medical Ctr, Nashville, TN

P1123 **The Pharmacological Basis for Vasodilator Effect of *Sisymbrium Irio* Linn. Validates its Folkloric Use in Hypertension**  
Muhammad Masood Ahmed, Faculty of Pharmacy, B.Z Univ, Multan, Pakistan; Musaddique Hussain, Sch of Med, Zhejiang Univ, Hangzhou, China; Umer Farooq, Coll of Pharmaceutical Sciences, Zhejiang Univ, Hangzhou, China; Shahid Masood Raza, Sch of Pharmacy, The Univ of Faisalabad, Faisalabad, Pakistan; Shumaila Andleeb, Abdul Majeed, Syed Nisar Hussain Shah, Faculty of Pharmacy, B.Z Univ, Multan, Pakistan

P1124 **Nephron Deficiency and Hyperglycemic Renal Injury Using a Novel One Kidney Rat Model**  
Meredith B Cobb, Wenjie Wu, Ashley C Johnson, Esinam M Attipoe, Michael R Garrett, U of Mississippi Medical Ctr, Jackson, MS

P1125 **Serum Metabolite 1-Methylhistidine, a Marker of Red Meat and Poultry Consumption, Independently Associates With Increases in Systolic and Diastolic Blood Pressure in Middle-Aged Adults**  

P1126 **Neutrophil Extracellular Traps: New Players in Hypertension**  
Matam Vijay-Kumar, Piu Saha, Beng San Yeoh, Rachel Golenka, Cameron McCarthy, Adam Spegele, Ahmed Abokor, Saro Chakraborty, Blair Mell, Lauren Koch, Bina Joe, Univ of Toledo, Toledo, OH

P1127 **Reverse Feeding Abolishes Circadian Blood Pressure Rhythms in Bmal1-Knockout Rats**  
Megan K Rhoads, Chuhua Jin, David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL

P2001 **Nicotinamide Riboside the New Promising Drug of Myocardial Infarction Management**  
Cynthia Tannous, Rana Ghali, Nada Habeichi, Abdo Jurjus, American Univ of Beirut, Beirut, Lebanon; Mathias Mericskay, Faculty of Pharmacy, Paris-Sud Univ, Paris, Lebanon; Mawar Refaat, Fouad Zouein, American Univ of Beirut, Beirut, Lebanon

P2002 **Loss of GSTM1 is Cardioprotective Against Ischemia-Reperfusion Injury**  
Yves T Wang, Keith Nehrke, Paul S Brookes, Thu H Le, Univ of Rochester, Rochester, NY

P2003 **Loss of Trpa1 in Mice Leads to Age-Related Dilated Cardiomyopathy**  
Shuangtao Ma, Chunqi Qian, Donna H. Wang, Michigan State Univ, East Lansing, MI

P2004 **Neural Inflammation in Stellate Ganglia Mediates Lung Injury-Induced Arrhythmogenesis**  
Ryan Adam, Lie Gao, Juan Hong, Irving H. Zucker, Steven J. Lisco, Hanjun Wang, Univ of Nebraska Med Ctr, Omaha, NE

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Poster Presentations (continued)

P2005  Antioxidant Resveratrol Attenuates Cardiac Fibrosis and Reduces Matrix Metalloproteinase-2 Activity in Heart Failure Rats  
Marina T Durand, Caissa B Orlandin, Giselle F Bonácio, Elen R Sanchez, Marília P Durão, Univ of Ribeirão Preto, Ribeirão Preto, Brazil; Renata M Lataro, Federal Univ of Santa Catarina, Florianópolis, Brazil; Leandra N Ramalho, Carlos A Silva, Jefferson H Amaral, Univ of Sao Paulo, Ribeirão Preto, Brazil; Carol B Restini, Michigan State Univ, Lansing, MI; Helio C Salgado, Univ of Sao Paulo, Ribeirão Preto, Brazil

P2006  Imbalance Between Collagen Type 1 and 3 in the Remodeling of the Extracellular Matrix Contributes to the Transition to Heart Failure Cible Prado, Vanessa Amorim, Janainá Léllis, USP, Ribeirão Preto, Brazil; Elen Rizzi, UNAERP, Ribeirão Preto, Brazil; Simone Ramos, USP, Ribeirão Preto, Brazil; Flávia Meirelles, USP, Pirassununga, Brazil

P2007  Muscadine Grape Extract Prevents Cardiac Cell Cytotoxicity Due to Oxidative Stress by Enhancing Mitochondrial Function David R Soto-Pantoja, Elizabeth A Tallant, Patricia E Gallagher, Wake Forest Health Sciences, Winston Salem, NC

P2008  The Efficacy of Spironolactone in the Management of Uncontrolled Hypertension in Patients With Left Ventricular Hypertrophy and Diastolic Dysfunction in a Community Practice Naveen Raj Saxena, Vinita Srivastava, Anju Saxena, Peace Medical Ctr, Simpsonville, SC

P2009  Dysbiotic 1-Carbon Metabolism in Hypertensive Cardiac Remodeling Suresh C Tyagi, Akash K George, Mahavir Singh, Sathnur B Pushpakumar, Rubens P Homme, Naira Metreveli, Univ of Louisville, Louisville, KY

P2010  Silencing Epidermal Growth Factor Reducer P44/42 Mitogen-Activated Protein Kinase Signaling in the Hypothalamic Paraventricular Nucleus and Ameliorates Sympathetic Excitation in Rats With Heart Failure After Myocardial Infarction Yang Yu, Shun-Guang Wei, Robert M Weiss, Univ of Iowa, Iowa City, IA; Robert B Felder, Univ of Iowa and VA Medical Ctr, Iowa City, IA

P2011  Chronic Systemic Administration of Pro-Inflammatory Cytokines Causes Cardiovascular Dysfunction and Downregulates Brain Expression of Regulator of G-Protein Signaling-10 in Rats Xiaolei Chen, Yang Yu, Balysa Bell, Yiling Cao, Ye Wang, Dept of Internal Med, Univ of Iowa Carver Coll of Med, Iowa City, IA; Robert B Felder, Dept of Internal Med, Univ of Iowa Carver Coll of Med and VA Medical Ctr, Iowa City, IA; Shun-Guang Wei, Dept of Internal Med, Univ of Iowa Carver Coll of Med, Iowa City, IA

P2012  Combining the Anti-Fibrotic Actions of Serelaxin With the Anti-Oxidant, N-Acetylcysteine, Abrogates Cardiac Fibrosis in an Isoprenaline-Induced Murine Model of Cardiomyopathy Chao Wang, Barbara K Kemp-Harper, Chrishan S Samuel, Monash Univ, Clayton, Australia

P2013  Genomic Identification Of Key CircRNAs In Healthy And Dilated Cardiomyopathy Human Heart Kunzhe Dong, Augusta Univ, Augusta, GA; Xiangqin He, Nanchang Univ, Nanchang, China; Huabo Su, Augusta Univ, Augusta, GA; Hongbo Xin, Nanchang Univ, Nanchang, China; Jiliang Zhou, Augusta Univ, Augusta, GA

P2014  Prolyl Endopeptidase (PEP) is the Main Angiotensin (1-7) Forming Enzyme From Angiotensin II (1-8) in the Circulation: Implications for Hypertension Gvantca Gulua, Peter Serfozo, Jan Wysocki, Minghao Ye, Pan Liu, Jing Jin, Northwestern Univ, Chicago, IL; Michael Bader, MDC Berlin, Berlin, Germany; Timo Myöhänen, J Arturo Garcia-Horsman, Univ of Helsinki, Helsinki, Finland; Daniel Battle, Northwestern Univ, Chicago, IL

P2015  Antiproliferative Effects of Monoclonal Antibodies Against (Pro)Renin Receptor in Pancreatic Ductal Adenocarcinoma Akira Nishiyama, Kagawa Univ Med Sch, Kagawa, Japan; Makoto Matsuyama, Shigei Medical Res Inst, Okayama, Japan; Yuki Shibayama, Kagawa Univ Med Sch, Kagawa, Japan; Akio Ebihara, Gifu Univ, Gifu, Japan; Asadur Rahman, Kagawa Univ Med Sch, Kagawa, Japan

P2016  Proximal Tubule-Specific Knockout of Angiotensin II Type 1a Receptors in the Kidney Augments the Natriuretic Response to Angiotensin III in Mice Chunling Zhao, Xiao Chun Li, Xue Chen, Xiaowen Zheng, Jia Long Zhuo, Univ Mississippi Medical Ctr, Jackson, MS

P2017  Angiotensin-Induced Constriction via Rho Kinase Activation in Pressure-Overloaded Rat Thoracic Aortas Yuka Terada, Katsutoshi Yayama, Kobe Gakuin Univ, Kobe, Japan

P2018  PRR Mediates P53 Activation in Aristolochic Acid Induced Renal Proximal Tubule Cell Injury Silas Allen Culver, Rebecca K McDevitt, Helmy M Siragy, Univ of Virginia, Charlottesville, VA

P2019  (Pro)Renin Receptor-Dependent Induction of Pro-Fibrotic Factors is Mediated by COX-2/EP4/NOX-4/Smad Pathway in Mouse Renal Collecting Duct Cells Alexis A Gonzalez, Cristian Reyes, Avenida Univ 330, Valparaiso, Chile
P2020 Effect of Steroid Hormones on Catalytic Activity of Renin Angiotensin Aldosterone System Enzymes and on Cell Behaviour in Human Mesangial Cells
Danielle Stoll, Dulce E Casarini, Univ Federal de Sao Paulo, Sao Paulo, Brazil

P2021 Cutaneous Wound Healing in Diabetic Mice is Improved by Topical Mineralocorticoid Receptor Blockade
Van Tuan Nguyen, INSERM/UMRS1138 Cordeliers Res Ctr, Paris, France; Nicolette Farman, INSERM/UMRS1138 Cordeliers Res Ctr, Paris, France; Selim Aractingi, INSERM/UMRS938 Saint-Antoine Res Ctr, Paris, France; Frederic Jaisser, INSERM/UMRS1138 Cordeliers Res Ctr, Paris, France

P2022 The Jak3 Pathway is Involved in the Benefit of the Mineralocorticoid Receptor Antagonist Finerenone in Acute and Chronic Kidney Injury Following Ischemia-Reperfusion
Frederic Jaisser, Gabriel R Estela, INSERM 1138, Paris, France; Peter Kolkhof, Bayer AG, Wuppertal, Germany; Jonatan Barrera-Chimal, Inst de Investigaciones Biomedicas, UNAM and Insto Nacional de Cardiologia Ignacio Chávez, Mexico City, Mexico

P2023 Perivascular Adipose Tissue Assists Arterial Stress Relaxation: Loss of Assistance in Obesity-Associated Hypertension
Sara Roccabianca, Emma Flood, Hannah Garver, Gregory Fink, Stephanie W Watts, Michigan State Univ, East Lansing, MI

P2024 Treatment of Primary Hyperaldosteronism Increases Plasma Epoxyeicosatrienoic Acids
James M Luther, Vanderbilt Univ Med Ctr, Nashville, TN; Gail Adler, Brigham and Women’s Hosp, Boston, MA; Shouzuo Wei, Hui Nian, Chang Yu, Nancy J Brown, Vanderbilt Univ Med Ctr, Nashville, TN

P2025 Primary Aldosteronism Decreases Insulin Secretion and Increases Insulin Clearance in Humans
Gail Adler, Gillian Murray, Brigham and Women’s Hosp, Boston, MA; Adina Turcu, Univ of Michigan, Ann Arbor, MI; Hui Nian, Chang Yu, Carmen Solorzano, Dungneg Peng, Robert Manning, James M Luther, Vanderbilt Univ Med Ctr, Nashville, TN

P2026 Involvement of Subfornical Organ Insulin Receptor Signaling in the Development of Angiotensin-II Hypertension
Jin Kwon Jeong, Hayk Simonyan, Collin Young, The George Washington Univ, Washington, DC

P2027 Preliminary Characterization Of The119-angiotensin 1-7 Binding Site In Rat Liver Filipe Fernandes Stoyell-conti, Sarin Itty, Mahnoor Asif, Hanna Stewart, Christy Abraham, Nova Southeastern Univ, Davie, FL; Crystal West, Georgetown Univ, Washington, DC; Robert C Speth, Nova Southeastern Univ, Davie, FL

P2028 Paracrine And Intracellular Angiotensin II Activate Protein Kinase C, Map Kinase Erk1/2, And Nuclear Factor-kB Signaling Responses In Murine Glomerular Mesangial Cells
Ana Paula Leite, Univ of Mississippi Medical Ctr/ Federal Univ of Sao Paulo, Jackson, MS; Xiaoc Li, Univ of Mississippi Medical Ctr, Jackson, MS; Dulce Elena Casarini, Federal Univ of Sao Paulo, Sao Paulo, Brazil; Jia L Zhuo, Univ of Mississippi Medical Ctr, Jackson, MS

P2029 Cytochrome P450 (CYP) 1B1-Estradiol Metabolite 2-Methoxyestradiol Protects Against Angiotensin II-induced Hypertension By Inhibiting CYP4A1 Expression <And> 20-Hydroxyeicosatetraenoic Acid (20-HETE) Production in the Female Mice
Chi Young Song, Ji Soo Shin, Jessica Lew, Univ of Tennessee Health Science Ctr, Memphis, TN; John Falck, Univ of Texas Southwestern Medical Ctr, Dallas, TX; Kafait Malik, Univ of Tennessee Health Science Ctr, Memphis, TN

P2030 DOCA-Salt Diminishes Brain RAS Activity in Parallel With Plasma And Renal RAS Activity – No Evidence for Selective Brain RAS Activation
Estrella Uijl, Liwei Ren, Erasmus MC, Rotterdam, Netherlands; Katrina M Mirabito Colafella, Monash Univ, Melbourne, Australia; Marko Poglitsch, Oliver Domenig, Attoquant Diagnostics, Vienna, Austria; Ivan Zlatev, Jae B Kim, Stephen Huang, Lauren Melton, Don Foster, Alnylam Pharmaceuticals, Cambridge, MA; A H Jan Danser, Erasmus MC, Rotterdam, Netherlands

P2031 Control Of Antihypertensive Effect Of Small Interfering RNA Targeting Angiotensinogen Estrella Uijl, Erasmus MC, Rotterdam, Netherlands; Katrina M Mirabito Colafella, Monash Univ, Melbourne, Australia; Ewout J Hoorn, Erasmus MC, Rotterdam, Netherlands; Ivan Zlatev, Jae B Kim, Stephen Huang, Lauren Melton, Don Foster, Alnylam Pharmaceuticals, Cambridge, MA; A H Jan Danser, Erasmus MC, Rotterdam, Netherlands

P2032 Differential Response To Angiotensin II Depends on Microbial Colonization
Ellen G Avery, Hendrik Bartolomeaus, Kristin Kraeker, András Balogh, Dominik N Müller, Nicola Wilck, Experimental and Clinical Res Ctr (Max Delbrück Ctr for Molecular Med & Charité Univsmedinz), Berlin, Germany

P2033 Rationale For A Novel Approach To Hypertension Treatment Based On Immuno-neutralization Of Angiotensin-1-12 Cytokine Sites With A Polyclonal Antibody
Sarfaraz Ahmad, Kendra N Wright, Jasmina Varagic, Leean Groban, Carlos M Ferrario, Wake Forest Univ Sch Med, Winston Salem, NC
POSTERS

Poster Presentations (continued)

P2034  Effects of Renal Denervation on the Course of Heart Failure and Occurrence of Renal Dysfunction in Ren-2 Transgenic Hypertensive Rats With Aorto-Caval Fistula
Zuzana Honetschlägerova, Luděk Červenka, IKEM - PEM, Prague, Czech Republic

P2035  Severity of Hypertension Due to Elastin Haploinsufficiency Is Sex-Dependent

P2036  Effects of Angiotensin II Type 1 A Receptor (AT1aR) on Renal and Urinary Biomarkers of Acute Kidney Injury in Two Kidney One Clip (2K1C) Model of Renovascular Hypertension
Anhar Hosawi, Sanjeev Dhakal, Wright State Univ, Dayton, OH; Unmesha Thanekar, Wright State Univ, Fairborn, OH; Laale Alawi, Harshal Sawant, Nadja Grobe, Khalid M Elased, Wright State Univ, Dayton, OH

P2037  G Protein-Coupled Receptor 371 is Localized on the Nuclear Envelope
Ines Armando, Pedro A Jose, Prasad R Konkalmatt, The George Washington Univ, Washington, DC

P2038  A Nobel I551F Mutant of Sodium Handling Transporter NBCe1 Has Cytosolic Retention and Diminishes Transport Activity
Osamu Yamazaki, Teikyo Univ, Tokyo, Japan; Maho Yamashita, Keio Univ of Med, Tokyo, Japan; Jinping Li, Fumika Ochiai-Honna, Teikyo Univ, Tokyo, Japan; Tadashi Yoshida, Junichi Hirahashi, Keio Univ of Med, Tokyo, Japan; Shunya Uchida, Teikyo Univ, Tokyo, Japan; Matsuhiko Hayashi, Keio Univ of Med, Tokyo, Japan; Shigeru Shibata, Teikyo Univ, Tokyo, Japan

P2039  Nitric Oxide Inhibition Enhances the Protein Expression of TNF-α Receptor Type 1 in Cultured M-1 Cells With Characteristics of Renal Collecting Duct Epithelium
Alexander Castillo, Sudha Talwar, Asim B Abdel-Mageed, Peace E Ekpo, Dewan S Majid, Tulane Univ Sch of Med, New Orleans, LA

P2040  Acute Effects of Weight Loss by Dehydration on Renal Function in Mixed Martial Arts
Antonio A Pereira, Nestor Schor (in memorium), Dulce E Casarini, Univ Federal de Sao Paulo, Sao Paulo, Brazil

P2041  Wnt Signaling Regulates GPR371 Expression in Human Renal Proximal Tubule Cells
Ines Armando, Pedro A Jose, Prasad R Konkalmatt, The George Washington Univ, Washington, DC

P2042  Alteration of Mitochondrial Deoxyribonucleic Acid Methylation and Nuclear Transcription Factors Reduces Mitochondrial Biogenesis in Aged Hypertensive Kidney
Sathnur Pushpakumar, Gregory Weber, Suravi Majumder, Utpal Sen, Univ of Louisville, Louisville, KY

P2043  Role of GRK4, a Risk Factor for Hypertension, in Breast Cancer
Wei Yue, Jiping Wang, Katherine Schiermeyer, Peng Xu, John Gil, Robin Felder, Univ of Virginia, Charlottesville, VA

P2044  Renoprotective Effects of Canagliflozin in Db/db Diabetic Mice
Umeshda Subramanian, Kailash Nath Pandey, Tulane Som Physiology, New Orleans, LA

P2045  Genetic Disruption of Npr1 Depletes T Regulatory Cells and Provokes High Levels of Proinflammatory Cytokines and Fibrosis in the Kidneys of Female Mutant Mice
Venkateswara Reddy Gogulamudi, Indra Mani, Uptal Sen, Teikyo Univ, Tokyo, Japan; Matsuhiko Hayashi, Keio Univ of Med, Tokyo, Japan; Tadashi Yoshida, Junichi Hirahashi, Keio Univ of Med, Tokyo, Japan; Shinya Uchida, Teikyo Univ, Tokyo, Japan; Shigeru Shibata, Teikyo Univ, Tokyo, Japan

P2046  The Effect of Environmental Circadian Disruption on Kidney Injury In Spontaneously Hypertensive Stroke Prone Rats
Atlantic Hill, Morehouse Sch of Med, Atlanta, GA

P2047  Human Renal Proximal Tubule Cells Cultured Under High Salt Conditions Increase Angiotensin Type 2 Receptor Abundance In Secreted Exosomes
Nicholas C Laterza, John J Glidlea, Peng Xu, Katherine A Schiermeyer, Robin A Felder, University of Virginia, Charlottesville, VA

P2048  Epigenetic Modification by Angiotensin II Mediates Augmentation of Intrarenal Angiotensinogen Expression
Akemi Katsurada, Courtney M Dugas, Nicholas R Huisning, Ryosuke Sato, Dept of Physiology and Hypertension and Renal Ctr of Excellence, Tulane Univ Sch of Med, New Orleans, LA

P2049  Mitochondrial Respiration And Biogenesis In The Glomeruli of Dahl Ss Rats
Regina Sultanova, Mark Domondon, Iulia Polina, Mikhail Fomin, Medical Univ of South Carolina, Charleston, SC; Kristzian Stadler, Pennington Biomedical Res Ctr, Baton Rouge, LA; Daria Ilatovskaya, Medical Univ of South Carolina, Charleston, SC

P2050  The Pcornet Blood Pressure Control Laboratory
Mark J Pletcher, Val Fontil, UCSF, San Francisco, CA; Thomas Carton, Louisiana Public Health Inst, New Orleans, LA; Kathryn Shaw, Myra Smith, Univ of Florida, Gainesville, FL; Jonathan Todd, OCHIN, Portland, OR; Alanna M Chamberlain, Mayo Clinic, Rochester, MN; Emily Obrien, Duke Univ, Durham, NC; Madelaine Faulkner, UCSF, San Francisco, CA; Carlos Maeztu, None, Gainesville, FL; Gregory Wozniak, Michael Rakotz, American Medical Association, Chicago, IL; Christine Shay, American Heart Association, Dallas, TX; Rhonda M Cooper, DeHoff, Univ of Florida, Gainesville, FL

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**Poster Presentations (continued)**

**P2051** Incidence of Renal Artery Damage Following Percutaneous Renal Denervation With Radio Frequency Renal Artery Ablation Systems

Raymond R Townsend, Perelman Sch of Med, Univ of Pennsylvania, Philadelphia, PA; Antony Walton, The Alfred Hosp, Melbourne, Australia; Douglas A Hettrick, Graeme L Hickey, Medtronic, Santa Rosa, CA; Andrew S Sharp, The Royal Devon and Exeter Hosp, Exeter, United Kingdom

**P2052** Differential Association of Measures of Adiposity With 24-Hour Ambulatory Blood Pressure Control in Adults on Antihypertensive Monotherapy

Jordana B Cohen, Elkys Funez, Debbie L Cohen, Peter P Reese, Raymond R Townsend, Univ of Pennsylvania, Philadelphia, PA

**P2053** Blood Pressure Variability is Higher When Pulse Rate is Lower, in a Large Outpatient Database

Amos Cahan, Uri Lerner, Maccabi Healthcare Services, Tel-Aviv, Israel; Barak Fishbain, Technion – Israel Inst of Technology, Tel-Aviv, Israel; Michael Bursztyn, Hadassah Univ Hosp Ctr Mt. Scopus, Jerusalem, Israel

**P2054** Experiencing the Primary Composite Cardiovascular Outcome is More Strongly Associated With Serious Adverse Events Than Intensive Treatment in the Systolic Blood Pressure Intervention Trial

Albert Botchway, Michael G Buhnerkempe, Vivek Prakash, Mohammad Al-Akchar, Oritsegububemi Adekola, John M Flack, SIU Sch of Med, Springfield, IL

**P2055** Incremental Impact of Stressful Situations in Stage 1 vs. Stage 2 Hypertensives: Insights From a Large Digital BP Management Service and Registry

Giovanni Peretto, Tommaso Bordignon, Gaia Del Mauro, Martina Fabi, Eros Colombo, Domenico Cianflone, AMICOMED Inc, San Francisco, CA

**P2056** Effect of Ambulatory BP Load on Target Organ Damage in Youth

Elaine M Urbina, Cincinnati Children’s Hosp, Cincinnati, OH; Michael Ferguson, Boston Children’s Hosp, Boston, MA; Marc Lande, Univ of Rochester Medical Ctr, Rochester, NY; Kevin Meyers, Children’s Hosp of Philadelphia, Philadelphia, PA; Joshua Samuels, Univ of Texas Health Sciences Ctr, Houston, TX; Joseph T Flynn, Seattle Children’s Hosp, Seattle, WA

**P2057** Oscar 2 & Spacelabs 90207/90217 Ambulatory Blood Pressure Monitors Differ from Each Other & Trained Clinicians Using a Mercury Column in the Laboratory

V Patterson Lombardi, Patrick C Reichhold, Jennifer L Cramer, Hannah P Harkness, Natalie J DeBell, Nicholas R Dietz, Donald L Pate, Univ of Oregon, Eugene, OR

**P2058** Using Mobile Health Technology to Increase Knowledge About Hypertensive Patients Requests and Health Behaviors

Martin H Carlsson, Dept of Med and Optometry, Linnaeus Univ, Kalmar, Sweden; Gassan Darwiche, Dept of Clinical Sciences, Faculty of Med, Lund Univ, Malmö, Sweden, Lund, Sweden

**P2059** American Medical Students Have a Higher Prevalence of Stage 2 Hypertension Than the General Public: A Cross Sectional Study

Jacek Bednarz Jr, Daniel W Mok, Jan D Zieren, Theresa M Ferguson, Jordan M Glass, Kelcie L Smith, Brian Yonish, Lincoln Memorial Univ, Harrogate, TN

**P2060** Life’s Simple 7 for Cardiovascular and Total Health: How are We Doing?

Brent Egan, Care Coordination Inst, Greenville, SC; Jiexiang Li, Coll of Charleston, Charleston, SC; Susan Sutherland, Care Coordination Inst, Greenville, SC; Daniel Jones, Univ of Mississippi Medical Ctr, Jackson, MS; Yuling Heng, Ctrs for Disease Control, Atlanta, GA; Keith Ferdinand, Tulane Univ Medical Ctr, New Orleans, LA; Angelo Sinopoli, Care Coordination Inst, Greenville, SC

**P2061** Cardiovascular Risk Profile of a Young Adult Population Assisted by a Family Healthcare Unit in Rio De Janeiro With High Risk for Obstructive Sleep Apnea Screened By Stop-Bang Questionnaire and Epworth Sleepiness Scale

Rafael Bellotti Azevedo, Leticia Zarur Junqueira de Andrade, Leonardo Villa Leão Ferreira, Rodrigo Silva, João Victor Goncalves de Hollanda, Fernando Bizzo Sampaio, Raquel Ebel de Castro, Stephanie Si Min Lilenwald Oei, Maria Fernanda de Miranda Reis do Rego, Elizabeth Silaid Muxfeldt, Univ Estácio de Sá- Medical Sch, Rio De Janeiro, Brazil

**P2062** Vitamin D Supplementation Improves Vascular Function in Adolescents Suffering from Orthostatic Intolerance

Hossam A Shaltout, Wake Forest Univ, Winston Salem, NC

**P2063** Isolated Noradrenergic Failure Due To congenital Cyb561 Deficiency

Cyndya A Shibao, Emily M Garland, Bonnie K Black, Vanderbilt Univ, Medical Ctr, Nashville, TN; Christopher J Mathias, Univ Coll London, London, United Kingdom; Maria B Grant, Univ of Alabama at Birmingham, Birmingham, AL; Allen W Root, John Hopkins All Children’s Hosp, St. Petersburg, FL; David Robertson, Italo Biaggioni, Vanderbilt Univ, Medical Ctr, Nashville, TN

**P2064** Changes in Inflammatory Markers Monitored Across Time After Bariatric Surgery in Severely Obese Patients

Anna Oliveras, Hosp del Mar, Barcelona, Spain; David Benito, Hosp del Mar Medical Res Inst, Barcelona, Spain; Susana Vázquez, Hosp del Mar, Barcelona, Spain; Maria Vera, Hosp del Mar Medical Res Inst, Barcelona, Spain; Sara Outon,
Albert Goday, Laia Sans, Julio Pascual, Hosp del Mar, Barcelona, Spain; Marta Riera, Hosp del Mar Medical Res Inst, Barcelona, Spain

P2065 Effect of Denture-Related Stomatitis on Blood Pressure and Heart Rate Variability
Adriana B Ribeiro, Camila B Araujo, Franklin L Bueno, Luiz E Silva, Caroline V Fortes, Helio C Salgado, Rubens Fazan Jr., Claudia H Silva-Lovato, Univ of Sao Paulo, Ribeirao Preto, Brazil

P2066 The Difference of Whith or Without Blood Pressure Adjustment for Pulse Wave Velocity as a Risk Factor for Cardiovascular Disease
Hiroki Nakano, Hirofumi Tomiyama, Akira Yamashina, FMD-J Study Group, Tokyo Medical Univ, Tokyo, Japan

P2067 Trends in Ambulatory and Home Blood Pressure Monitoring Use for Confirmation of Hypertension or Resistant Hypertension Among the Commercially-Insured in the U.S., 2008-2017
Steven M Smith, Raj Desai, Eric Dietrich, Haesuk Lim, John Reho, Donald Morgan, Kamal Livia L Camargo, Jithin Ganoderma

P2068 Whole Exome Sequencing and Monogenic Hypertension in a Multiethnic Cohort of 28,000 Individuals
Ishan Paranjpe, Kipp Johnson, Steven G Coca, Lili Chan, Cijiang He, Barbara Murphy, Jagat Narula, Ron Do, Girish N Nadkarni, Icahn Sch of Med, New York, NY

P2069 The Study Of Influencing Factors For Microalbuminuria With Essential Hypertension In Tibet
Liming Zhao, Hosp of Chengdu Office of People's Government of Tibet Autonomous Region, Chengdu, China

P2070 Renal, Cardiovascular, and Mortality Impacts of Refractory Hypertension in Patients With Chronic Kidney Disease: Insights from the Chronic Renal Insufficiency Cohort (CRIC)
Vivek Prakash, Michael G Buherkerempe, Albert Botchway, Berni Adebola, Mohammad Al-Akchar, John M Flack, SIU Sch of Med, Springfield, IL

P2071 β-1,3/1,6-d-glucan Of Indonesian Ganoderma Lucidum Mycelium Extract Reduces Systolic Blood Pressure & Inflammation In Hypertensive Patients
Peter Sugita, PT SAHABAT LINGKUNGAN HIDUP, Surabaya, Indonesia; MR Fadlan, Djanggan Sargowo, A Rizal, Faculty of Med, Brawijaya Univ – HIDUP, Surabaya, Indonesia; MR Fadlan, Djanggan Sargowo, A Rizal, Faculty of Med, Brawijaya Univ – HIDUP, Surabaya, Indonesia

P2072 Integrative Network Analysis Of Microbiome-Immune Axis In Metabolic Syndrome Patients During A Fasting Intervention
Ellen Germaine Avery, András Balogh, Hendrik Bartolomaeus, Ulrike Löber, Experimental and Clinical Res Ctr (Max Delbrück Ctr for Molecular Med & Charité Univsmedinz), Berlin, Germany; Nico Steckhan, Charité Univsmedinz & Immanuel Krankenhaus, Berlin, Germany; Lajos Markó, Nicola Wilck, Experimental and Clinical Res Ctr (Max Delbrück Ctr for Molecular Med & Charité Univsmedinz), Berlin, Germany; Ibrahim Hamad, VIB Ctr for Inflammation Res (IRC), UHasselt, Hasselt, Belgium; Urša Šušnjar, Anja Mähler, Experimental and Clinical Res Ctr (Max Delbrück Ctr for Molecular Med & Charité Univsmedinz), Berlin, Germany; Christoph Hohmann, Immanuel Krankenhaus, Berlin, Germany; Till R Lesker, Till Strowig, Helmoltz Ctr for Infection Res, Braunschweig, Germany; Ralf Dechend, Experimental and Clinical Res Ctr (Max Delbrück Ctr for Molecular Med & Charité Univsmedinz), Berlin, Germany; Danilo Bzdok, Dept of Psychiatry, Psychotherapy, and Psychosomatics, Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen Univ, Aachen, Germany; Markus Kleineviehtfeld, VIB Ctr for Inflammation Res (IRC), UHasselt, Hasselt, Belgium; Andreas Michelsen, Charité Univsmedinz & Immanuel Krankenhaus, Berlin, Germany; Dominik N Müller, Sofia K Forslund, Experimental and Clinical Res Ctr (Max Delbrück Ctr for Molecular Med & Charité Univsmedinz), Berlin, Germany

P2073 Blood Pressure Measurement: Should Technique Define Targets?
Marcel Ruzicka, Swapnil Hiremath, Ottawa Hosp, Ottawa, ON, Canada

P2074 Improving Hypertension Control by Molecular Stratification of First-Line Non-Responders Using RAAS Triple-A Testing
Marko Pogliitsch, Attoquant, Vienna, Austria; Jacopo Burrello, Univ of Torino, Torino, Italy; Ashraf H Ahmed, Zeng Guo, Univ of Queensland, Brisbane, Australia; Andrea Stoller, Thilo Burkard, Univ Hosp Basel, Basel, Switzerland; Oliver Domenig, Attoquant, Vienna, Austria; Manuel Haschke, Univ Hosp Basel, Basel, Switzerland; Michael Stowasser, Univ of Queensland, Brisbane, Australia; Paolo Mulatero, Universiy of Torino, Torino, Italy

P3001 Disruption of Endothelial BBSome Causes Vascular Dysfunction and Hepatosteatosis
Jingwei Jiang, John Reho, Donald Morgan, Kamal Rahmouni, Univ of Iowa Carver Coll of Med, Iowa City, IA

P3002 Endoplasmic Reticulum Stress Plays a Role in Nox5 Mediated Vascular Contraction
Augusto C Montezano, Livia L Camargo, Jithin Kuriakose, Karla B Neves, Rheure Alves-Lopes, Wendy Beattie, Francisco J Rios, Rhiann M Touyz, ICAMS – Univ of Glasgow, Glasgow, United Kingdom
Poster Presentations (continued)

P3003 miR-338-3p Down-Regulation Caused Up-Regulation of Alkaline Ceramidase 2 and Glutathione Peroxidase 3 mRNAs in Subcutaneous Small Arteries of Hypertensive Patients With Chronic Kidney Disease

P3004 Brain Microvascular Structure During Hypertension: Temporal Changes and Recovery Support Distinct Arteriolar Mechanisms
Gary Baumbach, Rasna Sabharwal, Thomas Gerhold, Mark Chapleau, Frank M Faraci, Univ Iowa, Iowa City, IA.

P3005 P66shc Plays a Role in Aldosterone Induced Vascular Remodeling and Dysfunction
Sarasunta Ucci, Allegra Battistoni, Carmine Nicoletti, Antonio Filippini, Sapienza Univ of Rome, Rome, Italy; Augusto C Montezano, Univ of Glasgow, Glasgow, United Kingdom; Massimo Volpe, Sapienza Univ of Rome, Rome, Italy; Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom; Carmine Savoia, Sapienza Univ of Rome, Rome, Italy.

P3006 Angiotensin-(1-7) Prevents Doxorubicin-Induced Aortic Dysfunction Through Anti-Fibrotic Mechanisms in Juvenile Male and Female Sprague Dawley Rats

P3007 Effect of Anti-Hypertensive Treatment Lisinopril on Central Arterial Stiffness and Anxiety-Like Behavior in Adult Hypertensive Dahl Salt-Sensitive Rats
Rachel C Fenner, Yulia Grigorova, Ross McDevitt, Natalia Petrasheskaya, Wen Wei, Edward Lakatta, Olga Fedorova, Samuel Ajamu, Natl Inst on Aging, Baltimore, MD.

P3008 Beta Adrenergic Receptor Activation Causes Endothelial Glycocalyx Degradation
Olan Jackson-weaver, Jessica Friedman, Marcus Hoof, Robert Drury, Jacob Packer, Chrissy Guidry, Juan Duchesne, Laura Rodriguez, Tulane Univ, New Orleans, LA.

P3009 Stenostiffness Approach for Cardiovascular Disease Risk Assessment in Primary Prevention
Hiroki Nakano, Hirofumi Tomiyama, Akira Yamashina, J-Babel Study Group, Tokyo Medical Univ, Tokyo, Japan.

P3010 Longitudinal Associations of Risk Factors for Cardiovascular Disease With the Progressions of Arterial Stiffness and Pressure Wave Reflection, and Their Independencies in Healthy Men
Masatsune Fujii, Hirofumi Tomiyama, Taishiro Chikamori, Akira Yamashina, Tokyo Medical Univ, Tokyo, Japan.

P3011 Role of CD36 in Insulin Mediated Microvascular Vasodilation in African Americans
Cyndya A Shibao, Vanderbilt Univ, Medical Ctr, Nashville, TN; Nada A Abumrad, Washington Univ in St. Louis, St. Louis, MO; Naji N Abumrad, Denar Parsa, Jorge E Celedonio, Shea K Scudder, Nicholas C Breier, Vanderbilt Univ, Medical Ctr, Nashville, TN.

P3012 Early Vascular Aging and Metabolic Status of Young People
Maria Evseyeva, Oksana Sergeeva, Elena Fursova, Anjelika Rusidi, Vladimir Baturin, Evgenij Sctetinin, Stavropol State Medical Univ, Stavropol, Russian Federation.

P3013 Infusion of Recombinant Human Thioredoxin-1 Completely Protects Against High Fat-Induced Endothelial Dysfunction in Small Mesenteric Arteries From Male C57bl6/j Mice
Rob H Hilgers, Campbell Univ, Buies Creek, NC.

P3014 Longitudinal Association Between Early and Late Systolic Cardiac Load and the Impairment of Left Ventricular Systolic Function in It’s Early Stage
Hiroki Nakano, Hirofumi Tomiyama, Taishiro Chikamori, Akira Yamashina, Tokyo Medical Univ, Tokyo, Japan.

P3015 Association of Uric Acid and Left Ventricular Systolic Function in Healthy Middle Aged Japanese Men
Hiroki Nakano, Hirofumi Tomiyama, Taishiro Chikamori, Akira Yamashina, Tokyo Medical Univ, Tokyo, Japan.

P3016 High Glucose Induced Diabetic Dementia is Mediated by Mitochondria Dysfunction
Ya Guo, Shaoxun Wang, Huawei Zhang, Wenjun Gao, Xiaochen He, George W. Booz, Richard J. Roman, Fan Fan, UMMC, Jackson, MS.

P3017 Associations of Metabolic Syndrome, Diabetes, and Metabolic Syndrome Plus Diabetes With Extent of Intracranial Atherosclerotic Stenosis
Jong-Ho Park, Byoung Seok Kim, Dept of Neurology, Hanyang Univ. Myongji Hosp, Goyang, South Korea.
Poster Presentations (continued)

Korea, Republic of; Junyoung Lee, Dept of Biostatistics, Coll of Med, Korea Univ, Seoul, Korea, Republic of

P3018 Sirt3 Depletion in Human Essential Hypertension is Linked to Vascular Inflammation and Oxidative Stress While Endothelial Specific Sirt3 Depletion in Mice Promotes Vascular Dysfunction and Increases Hypertension
Anna Dikalova, Arvind Pandey, Liang Xiao, Marcos G Lopez, Frederic T Billings, Vanderbilt Univ Medical Ctr, Nashville, TN; Eric Verdin, Gladstone Insts, Univ of California, San Francisco, CA; Johan Auwerx, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland; David G Harrison, Sergey Dikalov, Vanderbilt Univ Medical Ctr, Nashville, TN

P3019 Endothelial Epithelial Sodium Channel is a Novel Mediator of Early Macrovascular and Microvascular Stiffening That Prevents Kidney Injury in Diet-Induced Obesity
Annayya Aroor, Xiong Youxin, Guanghong Jia, Javad Habibi, Yang Yan, Camila Manrique, Guido Lastra, Chen Dongqiang, Sun Zhe, Luis Martinez-Lemus, Francisco Ramirez-Perez, Michael Hill, Vincent DeMarco, Frederic Jaisser, James Sowers, Adam Whaley-Connell, Univ of Missouri, Columbia, MO

P3020 Therapeutic Induction of Renal Lymphatic Expansion Attenuates Blood Pressure in Mice With L-NAME Hypertension
Dakshnariya Balasubramanian, Emily Marisa Luera, Bethany L Goodlett, Gaurav Baranwal, Joseph M. Rutkowski, Brett M. Mitchell, Texas A and M Univ HSC, College Station, TX

P3021 Trimethylamine but Not Trimethylamine N-Oxide Increases Blood Pressure in Rats, Affects Viability of Vascular Smooth Muscle Cells and Decreases Protein Structure
Marek Konop, Kinga Jaworska, Klaudia Bielińska, Medical Univ of Warsaw, Warsaw, Poland; Anna Bielak-Zmijewska, Grażyna Mosieniak, Ewa Sikora, Nencki Inst of Experimental Biology, Polish Acad of Sciences, Warsaw, Poland; Marta Pilz, Ladoslaw Derzsi, Krzysztof Szołanski, Robert Holyst, Inst of Physical Chemistry, Polish Acad of Sciences, Warsaw, Poland; Marcin Ufnal, Medical Univ of Warsaw, Warsaw, Poland

P3022 Pentoxifylline Exerts Antiinflammatory And Antioxidant Effects, Inhibits MMP-2 Activity And Attenuates Renovascular Hypertension-Induced Vascular Alterations
Elen Rizzi Sanchez, Giselle Bonacio, Univ of Ribeirao Preto, Ribeirao Preto, Brazil; Rose Ines Matos Batista, Faculdade de Medicina de Ribeirao Preto, Ribeirao Preto, Brazil; Vitoria Tomazelli Garcia, Bruna R Gonçalves, Thais R Victorino, Renata Delligliera-Jovilliano, Suzelei C Franca, Univ of Ribeirao Preto, Ribeirao Preto, Brazil; Jose Eduardo Tanus-Santos, Faculdade de Medicina de Ribeirao Preto, Ribeirao Preto, Brazil

P3023 Contribution of Transcription Factor EB-mediated Autophagy in Vascular Smooth Muscle Cell Dedifferentiation and Neointimal Injury
Yun-Ting Wang, Xiang Li, Bradley K McConnell, Univ of Houston, Houston, TX; Pin-Lan Li, Virginia Commonwealth Univ, Richmond, VA; Yang Zhang, Univ of Houston, Houston, TX

P3024 Tangential Wall Stress in the Thoracic Aorta Affects the Structure And Function of Associated Perivascular Adipose Tissue
Andres Contreras, Stephanie W Watts, Adam Lauver, Hannah Garver, Gregory D Fink, Michigan State University, East Lansing, MI

P3025 Secretion of Pro-inflammatory Cytokines by Activated T Cells Cultured in Pvat-conditioned Media From Dahl S Rats on a High Fat Diet Occurs Early During Development of Hypertension
Yining Jin, Sheng Liu, Kimberly E Guzman, Ramya K Kumar, Hannah Garver, Stephanie W Watts, Greg D Fink, Cheryl E Rockwell, Michigan State Univ, East Lansing, MI

P3026 Impact of Dietary Electrolytes on Post-Nephrectomy Blood Pressure, Proteinuria and Renal Function
Alicia A McDonough, Hillmin Lei, Taylor S Priver, Brandon E McFarlin, Scotti . Smith, Nouria Pastor-Soler, Donna L Ralph, USC Keck Sch Med, Los Angeles, CA

P3027 Response to Exercise Dictates Metabolic and Microbiotical Effects of a High-Salt Diet With Aging
Lauren G Koch, Youjie Zhang, Adam C Spegele, Tyler Doty, Blair Mell, Xi Cheng, Ji-Youn Yeo, Bina Joe, Univ of Toledo, Toledo, OH

P3028 Conditional Knockout of Acid Ceramidase in Collecting Ducts Exacerbates Salt Sensitivity of Blood Pressure With High Fat Diet
Weili Wang, Pin-Lan Li, Joseph Ritter, Ningjun Li, Virginia Commonwealth Univ, Richmond, VA

P3029 A Randomized Controlled Trial Evaluating a Novel Just-In-Time Contextual Mobile Application Intervention to Reduce Sodium Intake in Hypertension: The Lowsalt4life Trial
Michael P. Dorsch, Univ of Michigan, Coll of Pharmacy, Ann Arbor, MI; Maria L Cornellier, Armella D Poggi, Ferina Bilgen, Peiyu Chen, Cindy Wu, Univ of Michigan, Frankel Cardiovascular Ctr, Ann Arbor, MI; Lawrence G An, Scott L Hummel, Univ of Michigan, Medical Sch, Ann Arbor, MI

P3030 Lower 24- Hour Urinary Sodium Excretion is Associated With Hypertension Control: The 2010 Heart Follow-Up Study
Tali Elfassy, Univ of Miami, Miami, FL; Shadi Chamany, Katherine Bartley, New York City Dept of Health and Mental Hygiene, Long Island City, NY; Stella Yi, New York Univ, New York City, NY; Sonia Angell, New York City Dept of Health and Mental Hygiene, Long Island City, NY
Poster Presentations (continued)

P3032 Low-Salt and Minimal Sugar-Sweetened Beverage Intake May Not Improve Hypertension Control
Kausik Umanath, Clare Hassett, Ruicong She, Indra Adrianato, Albert Levin, Pablo Ortiz, Jerry Yee, Henry Ford Hosp, Detroit, MI

P3033 Sodium Induced Dopamine D1 Receptor (D1R) Plasma Membrane Recruitment Involves Protein Phosphatase 2a (PP2A) and Aminopeptidase N (APN)
Micah J Mallory, Peng Xu, Katherine A Schiermeyer, John J Gildea, Robin A Felder, Univ of Virginia, Charlottesville, VA

P3034 Female Mice are Protected Against Renal Inflammation and Salt-Sensitive Hypertension During Diabetes
Justin Z Shen, Adela Hernandez, Ellen A Bernstein, Luciana C Veiras, Zakir Khan, DuoYao Cao, Cedars-Sinai Medical Ctr, Los Angeles, CA; Alicia A McDonough, USC Keck Sch of Med, Los Angeles, CA; Kenneth E Bernstein, Jorge F Giani, Cedars-Sinai Medical Ctr, Los Angeles, CA

P3035 Role of T Cells in Sex Differences in Blood Pressure Elevation and Adipose Tissue Expansion Following Chronic High Fat Diet Feeding in Dahl Rats
Ahmed A Elmarakby, Riyaz Mohamed, Lindsey Ramirez, Elizabeth Snyder, Jennifer Sullivan, Augusta Univ, Augusta, GA

P3036 Calcitonin Gene Related Peptide Release From Afferent Nerve Fibers of the Skin is Influenced by Salt Intake
Tilmann Ditting, Kristina Rodionova, Univ of Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany; Peter Reeh, Univ of Erlangen, Erlangen, Germany; Christian Ott, Univ of Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany; Roland Schmieder, Mario Schiffer, Kerstin Armann, Univ of Erlangen, Erlangen, Germany; Roland Veelken, Univ of Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany

P3037 Timing of Food Intake Controls Diurnal Blood Pressure Rhythm in Mice
Dingguo Zhang, Chunhua Jin, Megan Rhodes, Rawan Almutlaq, Bryan Becker, Univ of Alabama at Birmingham, Birmingham, AL; Joshua Speed, Univ of Mississippi Medical Ctr, Jackson, MS; David Pollock, Univ of Alabama at Birmingham, Birmingham, AL

P3038 Reduced Renal Responsiveness and Altered Fluid Volume in an African Green Monkey (Chlorocebus Aethiops Sabaeneus) Preeclampsia Model
Mark K Santillan, Sabrina M Scroggins, Univ of Iowa, Iowa City, IA; Chelsea C Weaver, Univ of Kentucky, Lexington, KY; Donna A Santillan, Univ of Iowa, Iowa City, IA; Jessica C Taylor, Primates Plus, LLC, Lexington, KY

P3039 Altered Maternal and Fetal Vasopressin Receptors in Response to Hypertensive Stress in Pregnancy
Donna A Santillan, Lauren A Davis, Eric J Devor, Lydia E Sharp, Wendy S Hamilton, Debra S Brandt, Kellie M Thomas, Mark K Santillan, Sabrina M Scroggins, Univ of Iowa, Iowa City, IA

P3040 Maternal Hypertension Sensitizes Post Weaning High Fat Diet Elicited Hypertension in Adult Offspring
Baojian Xue, Terry G Beltz, Fang Guo, Alan Kim Johnson, Univ Iowa, Iowa City, IA

P3041 Novel Peptide B7-33 and It's Lipidated Derivative Protect Cytotrophoblasts From Preeclampsia Phenotype in a Cellular Model of the Syndrome
Syeda H Afroz, Ahmed F Pantho, Texas A&M Univ Coll of Med, Temple, TX; David CC Sprague, Orion Inst for Trans Med, Temple, TX; Thomas J Kuehl, Baylor Scott & White Health, Temple, TX; Ross Bathgate, Florey Inst of Neuroscience and Mental Health, Univ of Melbourne, Victoria, Australia; David C Zawieja, Texas A&M Univ Coll of Med, Temple, TX; Mohammed A Hossain, Florey Inst of Neuroscience and Mental Health, Univ of Melbourne, Victoria, Australia; Mohammad N Uddin, Orion Inst for Trans Med, Temple, TX

P3042 Second Trimester Severe Fetal Growth Restriction Preceding Preterm Severe Hypertensive Disorder in Pregnancy
Andrea D Shields, Richard Wagner, Jacqueline Battistelli, Baylor Coll of Med, San Antonio, TX; Viviana de Assis, United States Air Force, San Antonio, TX

P3043 The ELP-VEGF Fusion Protein is Bioavailable After Subcutaneous Administration and Prevents Increased Blood Pressure In Response To Placental Ischemia
Omar C Logue, Adrian C Eddy, Kyle Moore, Heather Chapman, Eric M George, Gene L Bidwell III, University of MS Medical Center, Jackson, MS

P3044 Elevated Free Fatty Acids During Pregnancy Promote Vascular Impairment, Uteroplacental Dysfunction And Angiogenic Imbalance In Rats
Jeremy W Duncan, Jessica L Bradshaw, Frank T Spradley, Joey P Granger, Univ of Mississippi Med Ctr, Jackson, MS

P3045 Soluble Guanylyl Cyclase Stimulators And Activators Inhibit Hypoxia-induced Placental Sflt-1 Levels
Bijalben Patel, Bhavisha Bakrania, Joey Granger, Univ of Mississippi Medical Ctr, Jackson, MS
**Poster Presentations (continued)**

P3048  **The 5-ht, Receptor is Essential for 5-ht-Induced Hypotension in the Doca Salt Hypertensive Rat**  
Bridget Seitz, Gregory Fink, Stephanie Watts, Michigan State Univ, East Lansing, MI

P3049  **A Novel Mobile App’s Reliability, End User Satisfaction, and Changes in Dash Diet Eating Patterns Over 8 Weeks**  
Susan Steigerwa, Scott Hummel, Univ of Michigan, Ann Arbor, MI; Kristin DiFilippo, Univ of Illinois, Urbana-Champaign, IL; Margaret Scisney-Matlock, Univ of Michigan, Ann Arbor, MI

P3050  **The Effects of Sacubitril/Valsartan on Blood Pressure: Experiences From a Community-Based Heart Failure Center**  
Keem Patel, Franciscan Health, Indianapolis, IN; Varun Dobaraiya, Kathleen Kiossopoulos, Vijay Rao, Susan Nicoson, Teresa Stickford, Franciscan Health, Indianapolis, IN; Ashley Titus, Atul R Chugh, Franciscan Health, Indianapolis, IN

P3051  **Are Black Hypertensive Patients Receiving Guideline-Recommended Medications?**  
Gregory Wozniak, Jianing Yang, Michael Rakotz, American Medical Association, Chicago, IL

P3052  **A Muscadine Grape Extract Improves Hypertension-Induced Aortic Damage in Conjunction With a Reduction in Fibrosis, Oxidative Stress, and Inflammation**  

P3053  **Cardiorespiratory Fitness and Cardiovascular Outcomes in Patients With Resistant Hypertension Participating in Cardiac Rehabilitation**  
Luke Joseph Laffin, Asad Khan, Cleveland Clinic Fndn, Cleveland, OH; Katherine Lang, Case Western Reserve Sch of Med, Cleveland, OH; Erik H Van Iterson, Cleveland Clinic Fndn, Cleveland, OH

P3054  **A Cultural Dance Program Proves Efficacious for Hypertension Control: A Randomized Controlled Trial**  
Joseph Keawe‘aimoku Kaholokula, Tricia M Mabellos, So Yung Chol, Todd B Seto, Univ of Hawaii, Honolulu, HI; Thomas Willis, Univ of Hawaii Cancer Ctr, Honolulu, HI; Mapuana de Silva, Halau Mohala ‘Ilma, Honolulu, HI; Adrienne Dillard, Kula Na No Po’e Hawaii, Honolulu, HI; Joseph Gonsalves, Hui No Ke Ola Pono, Wailuku, HI; A Aukahi Austin Seabury, I Ola Lahui, Honolulu, HI; J Kahaunhalihi Vegas, Waianae Coast Comprehensive Health Ctr, Waianae, HI; Stacy L Haumia, Univ of Hawaii, Honolulu, HI; Donna-Marie Palakiko, Ke Ola Mamo, Honolulu, HI; Mele A Look, Univ of Hawaii, Honolulu, HI

P3055  **Effects of Lactotripeptides on Tele-Monitoring Home Blood Pressure in Prehypertension: A Randomized, Double-Blind, Placebo-Controlled, Crossover Study**  
Masatsune Fujii, Hirofumi Tomiyama, Taishiro Chikamori, Tokyo Medical Univ, Tokyo, Japan

P3056  **The Effect of Device Guided Slow Breathing With Biofeedback on Pulse Transit Time and Respiratory Sinus Arrhythmia**  
Thomas Mengden, Kerckhoff Klinik, Bad Nauheim, Germany; Martin Bachler, Ait Austrian Inst of Techn Gmbh, Vienna, Austria; Christopher C Mayer, Ait Austrian Inst of Techn Gmbh, Vienna, Austria; Ines Mikisek, Ines Mikisek Coaching, Frankfurt am Main, Germany; Walter Sehnert, Clinical Res Inst, Dortmund, Germany; Siegfried Wassertheurer, Ait Austrian Inst of Techn Gmbh, Vienna, Austria

P3057  **Slow Breathing Training Reduces Blood Pressure in Healthy Normotensive Subjects**  
Alfredo Gamboa, Emily C Smith, Sachin Paranjape, Katrina M Nelson, Andre Diedrich, Gurjeet Birdee, Vanderbilt Univ Medical Ctr, Nashville, TN

P3058  **Significant Reduction of Visceral Adiposity in Hypertensive Participants of Doctor-Supervised, Intense Weight Loss Program**  
Gerald Dembrowski, Jessica Barnes, 20 Lighter Program, Boca Raton, FL

P3059  **ACE S: A Novel Angiotension Based Marjer for Monitoring Pharmacologic Activity of ACE Inhibitors in Hypertension Patients**  
Oliver Domenig, Attoquant Diagnostics GmbH, Vienna, Austria; Ashraf H Ahmed, Zeng Guo, Endocrine Hypertension Res Ctr, Univ of Queensland Diamantina Inst, Princess Alexandra Hosp, Brisbane, Australia; Andrea Stoller, Thilo Burkard, Univ Hosp Basel, Clinical Pharmacology and Toxicology, Basel, Switzerland; Manuel Haschke, Clinical Pharmacology & Toxicology, Dept of General Internal Med, Univ Hosp Bern, Bern, Switzerland; Michael Stowasser, Endocrine Hypertension Res Ctr, Univ of Queensland Diamantina Inst, Princess Alexandra Hosp, Brisbane, Australia; Marko Poglitsch, Attoquant Diagnostics GmbH, Vienna, Austria

P3059  **Cardiovascular Regulatory Actions of Apelin in Normotensive Rats: Central versus Peripheral Effects**  
Lirong Guo, Jilin Univ, Sch of Nursing, Changchun, China; Sayeman Islam Niloy, Stephen T O’Rourke, Chengwen Sun, North Dakota State Univ, Fargo, ND

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Poster Presentations (continued)

P3061  Elective Electroencephalography Monitoring During Tilt Table Testing in the Diagnosis of Syncope and Non-Syncopal Fainting
James A S Muldowney III, Vanderbilt Heart and Vascular Inst, Nashville, TN; Purnima Sharma, Vanderbilt Univ Medical Ctr, Nashville, TN; Luis E Okamoto, Divs of Clinical Pharmacology, Vanderbilt Univ Medical Ctr, Nashville, TN; Hasan H Sonmezeturk, Amanda Peltier, Dept of Neurology, Vanderbilt Univ Medical Ctr, Nashville, TN; Cyndya A Shibao, Italo Biaggioni, Divs of Clinical Pharmacology, Vanderbilt Univ Medical Ctr, Nashville, TN

P3062  Single-nucleus Rna-sequencing Reveals Cell-specific Transcriptome Changes in the Hypothalamic Arcuate Nucleus in Response to Prolonged High-fat Diet
Guorui Deng, Lisa Morselli, Sarah Sapouckey, Valerie Wagner, Anne Kwitek, Huxing Cui, Justin Grobe, University of Iowa, Iowa City, IA

P3063  Reduced 5-htr3r Signaling in the Nodose Ganglia Neurons of Adult Shr
Alan Araujo, David Baekey, Guillaume de Lartigue, Jasenka Zubcevic, UNIVERSITY OF FLORIDA, Gainesville, FL

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