Cardiovascular disease afflicts people of all races, ethnicities, genders, religions, ages, sexual orientations, national origins and abilities. The American Heart Association is committed to ensuring that our workforce and volunteers reflect the world’s diverse population. We know that such diversity will enrich us with the talent, energy, perspective and inspiration we need to achieve our mission: building healthier lives, free of cardiovascular diseases and stroke.

For information on upcoming American Heart Association Scientific Conferences, visit professional.heart.org

Joint Hypertension 2018 Scientific Sessions

Final Program

September 6–9, 2018 | Hyatt Regency Chicago | Chicago, IL

Sponsored by the Council on Hypertension, the Council on Kidney in Cardiovascular Disease, and the American Society of Hypertension
Program at a Glance

Thursday, Sept. 6
7:00 am Coffee and Exhibits
3:00-3:30 am Concurrent Session 6
4:00-4:30 pm Poster Session III
6:30-6:30 pm Poster Session I
8:00-9:00 am Concurrent Session 10
9:00-10:00 am Concurrent Session 11
9:00-10:00 am Concurrent Session 12
9:00-10:00 am Concurrent Session 13
9:00-10:00 am Concurrent Session 14
9:00-10:00 am Concurrent Session 15
10:00-11:30 am Concurrent Session 16
11:30-12:00 pm Concurrent Session 17
12:00-12:30 pm Concurrent Session 18
12:30-1:00 pm Concurrent Session 19
1:00-1:30 pm Concurrent Session 20
1:00-1:30 pm Concurrent Session 21
1:30-2:00 pm Concurrent Session 22
2:00-3:00 pm Concurrent Session 23
3:00-3:30 pm Concurrent Session 24
4:00-4:30 pm Concurrent Session 25
5:00-5:30 pm Concurrent Session 26
5:30-6:30 pm Concurrent Session 27
6:00-7:00 pm Concurrent Session 28

Friday, Sept. 7
7:00 am Coffee and Exhibits
3:00-3:30 am Concurrent Session 7
4:00-4:30 pm Poster Session IV
6:30-6:30 pm Poster Session II
8:00-9:00 am Concurrent Session 10
9:00-10:00 am Concurrent Session 11
9:00-10:00 am Concurrent Session 12
9:00-10:00 am Concurrent Session 13
9:00-10:00 am Concurrent Session 14
9:00-10:00 am Concurrent Session 15
10:00-11:30 am Concurrent Session 16
11:30-12:00 pm Concurrent Session 17
12:00-12:30 pm Concurrent Session 18
12:30-1:00 pm Concurrent Session 19
1:00-1:30 pm Concurrent Session 20
1:30-2:00 pm Concurrent Session 21
2:00-3:00 pm Concurrent Session 22
3:00-3:30 pm Concurrent Session 23
4:00-4:30 pm Concurrent Session 24
5:00-5:30 pm Concurrent Session 25
5:30-6:30 pm Concurrent Session 26
6:00-7:00 pm Concurrent Session 27

Saturday, Sept. 8
7:00 am Coffee and Exhibits
3:00-3:30 am Concurrent Session 8
4:00-4:30 pm Poster Session V
6:30-6:30 pm Poster Session I
8:00-9:00 am Concurrent Session 10
9:00-10:00 am Concurrent Session 11
9:00-10:00 am Concurrent Session 12
9:00-10:00 am Concurrent Session 13
9:00-10:00 am Concurrent Session 14
9:00-10:00 am Concurrent Session 15
10:00-11:30 am Concurrent Session 16
11:30-12:00 pm Concurrent Session 17
12:00-12:30 pm Concurrent Session 18
12:30-1:00 pm Concurrent Session 19
1:00-1:30 pm Concurrent Session 20
1:30-2:00 pm Concurrent Session 21
2:00-3:00 pm Concurrent Session 22
3:00-3:30 pm Concurrent Session 23
4:00-4:30 pm Concurrent Session 24
5:00-5:30 pm Concurrent Session 25
5:30-6:30 pm Concurrent Session 26
6:00-7:00 pm Concurrent Session 27

Program at a Glance

Saturday, Sept. 8
7:00 am Coffee and Exhibits
8:00-9:00 am Concurrent Session 10
9:00-10:00 am Concurrent Session 11
9:00-10:00 am Concurrent Session 12
9:00-10:00 am Concurrent Session 13
9:00-10:00 am Concurrent Session 14
9:00-10:00 am Concurrent Session 15
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3:00-3:30 pm Concurrent Session 23
4:00-4:30 pm Concurrent Session 24
5:00-5:30 pm Concurrent Session 25
5:30-6:30 pm Concurrent Session 26
6:00-7:00 pm Concurrent Session 27

Legend
- Oral Session
- Poster Session
- Ticketed Event
- Concurrent D: Clinical Practice
- Clinical Science Track or Primary Care Track
- Lunch and Breaks

An American Heart Association Journal

Join us for the Clinical-Pathological Conference during Concurrent Session 13

Saturday, September 8
7:30 AM – 9:00 AM
Columbus KL

Two clinical cases will be presented by clinicians and discussed with Prof. Dame Anna F. Dominicczak (Editor, Hypertension) and Prof. Rhian M. Touyz (Deputy Editor, Hypertension).

- Paroxysmal Hypertension Associated With Prenycope
- Masked Hypertension Contributing to Severe Hypertensive Disease With Left Ventricular Outflow Tract Obstruction – Not a Benign Phenomenon

hyper.ahajournals.org
Letter From the Chair

September 6, 2018

Dear Colleagues,

On behalf of the American Heart Association’s Council on Hypertension and Council on the Kidney in Cardiovascular Disease, and the American Society of Hypertension, it is my pleasure to welcome you to the Annual Joint Hypertension 2018 Scientific Sessions.

This conference considered the premier scientific meeting on hypertension in the world — focuses on recent advances in hypertension research and clinical practice. The science submitted to this conference continues to provide us 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 means to detect, evaluate and treat high blood pressure across diverse populations.

This year, we’re very pleased to have our opening lecture presented by Jan Basile, MD, FAHA, Medical University of South Carolina, presenting “Highlights of the New Hypertension Guidelines.” The lecture will be followed by Recent Advances in Hypertension on Thursday and Friday mornings, featuring presentations led by experts in the field of hypertension and its relationship to cardiac and kidney disease, stroke, obesity, and genetics.

The addition of the Concurrent D Clinical Practice Clinical Science and Primary Care tracks last year have created a new dimension to the meeting — bringing the latest advances in clinical practice and science related to the diagnosis and management of patients with simple and complex forms of hypertension. Your reviews from last year’s meeting welcomed this addition, which provides opportunities for greater translation of advances in research to clinical practice and state-of-the-art lectures highlighting basic research and challenges faced by practitioners when treating patients with hypertension.

On behalf of the Executive Leadership and Program Planning Committees and AHA staff who have dedicated countless hours to bring you this year’s meeting, we hope that you take full advantage of all the excellent programming throughout the conference, develop new collaborations and of course, catch up with old friends.

Please let us know if there is anything we can do to enhance your experience during your time here. We look forward to interacting with you during the next few days.

Sincerely,

Karen Griffin MD, FAHA
Vice-Chair, Council on Hypertension
Chair, Council on Hypertension Scientific Sessions Planning Committee
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*

6 Million

Article downloads per year†

Hype-submit.aha-journals.org

2 Million

Online visits 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.
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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)
(301) 223-2327 (outside the United States)
Fax (301) 223-2327
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 members of the Council on Hypertension Program Committee for their dedication and leadership in planning the program.

Council on Hypertension 2018 Scientific Sessions Program Committee

Joey Granger, PhD, FAHA, Chair, Council on Hypertension, University of Mississippi Medical Center, Jackson, Mississippi
Gail Adler, MD, PhD, FAHA, Brigham Women’s Hospital, Boston, Massachusetts
George Bakris, MD, FAHA, University of Chicago Medical Center, Chicago, Illinois
Jan N. Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina
John Bisognano, MD, PhD, FAHA, University of Rochester Medical Center, Rochester, New York
Michael Bloch, MD, FAHA, University of Nevada School of Medicine, Reno, Nevada
Robert D. Brook, MD, FAHA, University of Michigan, Ann Arbor, Michigan
Angela Brown, MD, Washington University School of Medicine, St. Louis, Missouri
David A. Calhoun, MD, FAHA, University of Alabama, Birmingham, Alabama
Debbie L. Cohen, MD, University of Pennsylvania, Philadelphia, Pennsylvania
Steven D. Crowley, MD, PhD, FAHA, University of North Carolina Durham, North Carolina
Leslie Davis, RN, MSN, ANP, FAHA, University of North Carolina Durham, North Carolina
Brent Egan, MD, FAHA, University of South Carolina School of Medicine, Greenville, South Carolina
Satoru Eguchi, MD, PhD, FAHA, Temple University School of Medicine, Philadelphia, Pennsylvania
William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington
David Ellison, MD, FAHA, Oregon Health Sciences University, Portland, Oregon
F. Wilford Germino, MD, FAHA, Orland Primary Care Specialists, Chicago, Illinois
Joel Handler, MD, FAHA, Kaiser Permanente, Anaheim, California
Kenneth Jamerson, MD, University of Michigan Medical Center, Ann Arbor, Michigan
Bina Joe, MD, FAHA, University Toledo, Toledo, Ohio
Louis Kuritzky, MD, University of Florida College of Medicine, Gainesville, Florida
Thu Le, MD, FAHA, University of Virginia School of Medicine, Charlottesville, Virginia
Lilach O. Lerman, MD, PhD, FAHA, Mayo Clinic, Rochester, Minnesota
Sarah Lindsey, PhD, Tulane University, New Orleans, Louisiana
Augusto Montezano, PhD, FAHA, Institute of Cardiovascular and Medical Sciences, Glasgow, Scotland
Mitra K. Nadim, MD, University of Southern California Keck School of Medicine, Los Angeles, California
Patrick Osei-Owudu, PhD, Drexel University, Philadelphia, Pennsylvania,
Aldo Peixoto, MD, Yale School of Medicine, New Haven, Connecticut
Jennifer Pollock, MS, PhD, FAHA, University of Alabama Birmingham, Birmingham, Alabama
Joshua A. Samuels, MD, MPH, FAHA, Mc Govern Medical School at UT Health, Houston, Texas
Allan B. Schwartz, MD, FAHA, Drexel University College of Medicine, Philadelphia, Pennsylvania
Daichi Shimbo, MD, Columbia University, New York, New York
Curt D. Sigmund, PhD, FAHA, University of Iowa Medical School, Iowa City, Iowa
Steven M. Smith, PharmD, MPH, BCPS, ASH-CHC, University of Florida College of Medicine, Gainesville, Florida
Susan P. Steigerwalt, MD, FAHA, University of Michigan, Ann Arbor, Michigan
Colin Summers, PhD, FAHA, University of Florida, Gainesville, Florida
Sandra Taier, MD, FAHA, Mayo Clinic, Rochester, Minnesota
Elaine M. Urbina, MD, FAHA, Cincinnati Children’s Hospital Medical Center, Cincinnati, Ohio
Anthony J. Viera, MD, MPH, FAHA, University of North Carolina, North Carolina
Steven A. Yarows, MD, FAHA, University of Michigan Health System, Chelsea, Michigan
Colin Young, PhD, George Washington University, Washington, DC
The American Heart Association gratefully acknowledges the unrestricted educational grant from

Arbor Pharmaceuticals, LLC and Medtronic, Inc.

Additionally, we would like to thank the following for their generous support of HTN 2018:

Cardiovascular Research Foundation
Council on the Kidney in Cardiovascular Disease
DSI
Hypertension journal
International Society of Hypertension’s New Investigator Committee
Janssen Pharmaceuticals

Treating Hypertension in 2018

Learn about the latest advances in hypertension, including details about the new 2017 Hypertension Clinical Practice Guidelines. This set of 4 activities offers continuing education credit for physicians, nurses and pharmacists, as well as ABIM MOC credit.

# Abstract Graders

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

<table>
<thead>
<tr>
<th>Barbara Alexander</th>
<th>Michael Ernst</th>
<th>Analia Loria</th>
<th>Helio Salgado</th>
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<tr>
<td>William Arendshorst</td>
<td>Nicholas Ferreri</td>
<td>James Luther</td>
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<td>Michael Bader</td>
<td>Gregory Fink</td>
<td>Dewan Majid</td>
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<td>Paula Barrett</td>
<td>Joseph Flynn</td>
<td>Frank Mantero</td>
<td>Jennifer Sasser</td>
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<td>Donald Batisky</td>
<td>Toshiro Fujii</td>
<td>David Mattson</td>
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<td>Daniel Battle</td>
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<td>Kathleen Berecek</td>
<td>Eric George</td>
<td>Mariela Mendez</td>
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<td>Anil Bidani</td>
<td>Celso Gomez-Sanchez</td>
<td>Francis Miller</td>
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<td>John Bisognano</td>
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<td>Henry Black</td>
<td>Philip Gorelick</td>
<td>Augusto Montezano</td>
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<td>Ana Briones</td>
<td>Joey Granger</td>
<td>Michael Moore</td>
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<td>Robert Brook</td>
<td>Karen Griffin</td>
<td>Akira Nishiyama</td>
<td>Colin Sumners</td>
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<td>K. Bridget Brosnihan</td>
<td>L. Lee Hamm</td>
<td>Ravi Nistala</td>
<td>Zhongjie Sun</td>
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<td>Nancy Brown</td>
<td>Diane Handy</td>
<td>Jon Nizar</td>
<td>E. Tallant</td>
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<td>Angela Brown</td>
<td>Pamela Harding</td>
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<td>David Calhoun</td>
<td>Lisa Harrison Bernard</td>
<td>John Osborn</td>
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<td>Robert Carey</td>
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<td>Dulce Casarini</td>
<td>Daria Ilatovskaya</td>
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<td>Katia de Angelis</td>
<td>Yoshihiro Kokubo</td>
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<td>Richard Roman</td>
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<td>Ralf Dechend</td>
<td>John Kostis</td>
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<tr>
<td>David Elliott</td>
<td>Thomas Lohmeier</td>
<td>Michael Ryan</td>
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## Room Locator

### Wednesday, September 5, 2018

<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>Grand Registration Desk</td>
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<tr>
<td>2:00-7:00 PM</td>
<td>Speaker Resource Room</td>
<td>Grand Suite 3</td>
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<tr>
<td>4:30-7:30 PM</td>
<td>Hypertension Fall Leadership Committee Meeting</td>
<td>Michigan 1</td>
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### Thursday, September 6, 2018

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<th>Time</th>
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<tr>
<td>7:00 AM-7:00 PM</td>
<td>Science News</td>
<td>Grand Office A</td>
</tr>
<tr>
<td>7:00 AM-3:30 PM</td>
<td>Exhibits</td>
<td>Grand Foyer</td>
</tr>
<tr>
<td>7:00-7:45 AM</td>
<td>Coffee and Exhibits</td>
<td>Grand Foyer</td>
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<tr>
<td>7:00-7:00 PM</td>
<td>Speaker Resource Room</td>
<td>Grand Suite 3</td>
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<tr>
<td>7:00-7:00 PM</td>
<td>Registration</td>
<td>Grand Registration Desk</td>
</tr>
<tr>
<td>7:45-10:00 AM</td>
<td>Session 1: Opening Remarks and Recent Advances in Hypertension</td>
<td>Grand CDEF</td>
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<tr>
<td>10:00-10:30 AM</td>
<td>Break – Refreshments and Exhibits</td>
<td>Grand Foyer</td>
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<tr>
<td>10:30-11:10 AM</td>
<td>Session 2: Recent Advances: Lifestyle Modifications and Impact on BP</td>
<td>Grand CDEF</td>
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<tr>
<td>11:10 AM-Noon</td>
<td>Session 3: Recent Advances: Obesity and Cardiovascular Disease</td>
<td>Grand CDEF</td>
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<tr>
<td>Noon-1:30 PM</td>
<td>Lunch Break on Your Own</td>
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<tr>
<td>Noon—5:00 PM</td>
<td>Poster Session I Set Up</td>
<td>Riverside East</td>
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<tr>
<td>1:30-3:00 PM</td>
<td>Session 4: Concurrent A: Obesity, Diabetes, and Metabolic Syndrome</td>
<td>Columbus ABCD</td>
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<tr>
<td>1:30-3:00 PM</td>
<td>Session 4: Concurrent B: Cardiac Hypertrophy and Dysfunction</td>
<td>Columbus EF</td>
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<tr>
<td>1:30-3:00 PM</td>
<td>Session 4: Concurrent C: Pregnancy and Preeclampsia I</td>
<td>Columbus KL</td>
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<tr>
<td>1:30-3:00 PM</td>
<td>Session 4: Concurrent D: Clinical Practice Clinical Science Track: Aldosterone and Primary Aldosteronism in Hypertension</td>
<td>Grand BD</td>
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<tr>
<td>3:00-3:30 PM</td>
<td>Break – Refreshments and Exhibits</td>
<td>Grand Foyer</td>
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<tr>
<td>3:30-5:30 PM</td>
<td>Session 5: Concurrent A: Inflammation, Immunity and Cytokines with mini-review at 5:00 PM</td>
<td>Columbus ABCD</td>
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<tr>
<td>3:30-5:30 PM</td>
<td>Session 5: Concurrent B: Cerebrovascular Disease, Stroke, and Aging</td>
<td>Columbus EF</td>
</tr>
<tr>
<td>3:30-5:30 PM</td>
<td>Session 5: Concurrent C: Renin Angiotensin System I with mini-review at 3:30 PM</td>
<td>Columbus KL</td>
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<tr>
<td>3:30-5:30 PM</td>
<td>Session 5: Concurrent D: Clinical Practice Clinical Science Track: Managing Hypertension in At-Risk-Populations</td>
<td>Grand BD</td>
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<tr>
<td>5:30-7:30 PM</td>
<td>Poster Session I Trainee On-Site Poster Competition with Reception</td>
<td>Riverside East</td>
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### Friday, September 7, 2018

<table>
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<tr>
<td>7:00 AM-7:00 PM</td>
<td>Science News</td>
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<td>7:00 AM-3:30 PM</td>
<td>Exhibits</td>
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<td>7:00-8:00 AM</td>
<td>Coffee and Exhibits</td>
<td>Grand Foyer</td>
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<tr>
<td>7:00 AM-7:00 PM</td>
<td>Speaker Resource Room</td>
<td>Grand Suite 3</td>
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<tr>
<td>7:00 AM-7:00 PM</td>
<td>Registration</td>
<td>Grand Registration Desk</td>
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<tr>
<td>8:00 AM-Noon</td>
<td>Poster Session II Set-Up</td>
<td>Riverside East</td>
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<tr>
<td>8:00-9:00 AM</td>
<td>Session 6: Recent Advances: Debate – Renal Denervation: Is There a Role in Essential Hypertension?</td>
<td>Grand CDEF</td>
</tr>
<tr>
<td>9:00-10:00 AM</td>
<td>Session 7: Recent Advances: Hot Topics in Hypertension</td>
<td>Grand CDEF</td>
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<td>10:00-10:30 AM</td>
<td>Break – Refreshments and Exhibits</td>
<td>Grand Foyer</td>
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<tr>
<td>10:30-11:15 AM</td>
<td>Session 8: Recent Advances: Hot Topics in Hypertension</td>
<td>Grand CDEF</td>
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<tr>
<td>11:15 AM-Noon</td>
<td>Session 9: Recent Advances: Blood Pressure and Neurocognition</td>
<td>Grand CDEF</td>
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<tr>
<td>Time</td>
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<tr>
<td>Noon-1:00 PM</td>
<td>Expert Theater: Long-Term Results of Treatment Across a Broad Range of Patients With Type 2 Diabetes. Sponsored by Janssen Pharmaceuticals, Inc. Complimentary lunch provided by The American Heart Association to the first 200 attendees.</td>
<td>Grand AC</td>
</tr>
<tr>
<td>Noon-1:30 PM</td>
<td>Lunch on Your Own</td>
<td></td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td>Poster Session II</td>
<td>Riverside East</td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td>Session 10: Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines - Part 1</td>
<td>Grand BD</td>
</tr>
<tr>
<td>3:00-3:30 PM</td>
<td>Break – Refreshments and Exhibits</td>
<td>Grand Foyer</td>
</tr>
<tr>
<td>3:30-4:00 PM</td>
<td>Session 11: Arthur C. Corcoran Memorial Lecture</td>
<td>Grand CDEF</td>
</tr>
<tr>
<td>4:00-5:30 PM</td>
<td>Session 11: Concurrent A: Gender Differences and Sex Hormones</td>
<td>Columbus ABCD</td>
</tr>
<tr>
<td>4:00-5:30 PM</td>
<td>Session 11: Concurrent B: Hypertension Early Career Oral Awards Session</td>
<td>Columbus EF</td>
</tr>
<tr>
<td>4:00-5:30 PM</td>
<td>Session 11: Concurrent C: Renal Injury</td>
<td>Columbus KL</td>
</tr>
<tr>
<td>3:30-5:30 PM</td>
<td>Session 11: Concurrent D: Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines Part 2: Areas of Controversy</td>
<td>Grand BD</td>
</tr>
<tr>
<td>5:30-6:45 PM</td>
<td>Session12: Awards Session</td>
<td>Grand CDEF</td>
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<tr>
<td>7:00-11:00 PM</td>
<td>Trainee Advocacy Mixer (open to all attendees)</td>
<td>Crystal Ballroom C</td>
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**Saturday, September 8, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM-5:45 PM</td>
<td>Exhibits</td>
<td>Grand Foyer</td>
</tr>
<tr>
<td>7:00 AM-7:00 AM</td>
<td>Science News</td>
<td>Grand Office A</td>
</tr>
<tr>
<td>6:30 AM-7:00 PM</td>
<td>Registration</td>
<td>Grand Registration Desk</td>
</tr>
<tr>
<td>6:30 AM-6:00 PM</td>
<td>Speaker Resource Room</td>
<td>Grand Suite 3</td>
</tr>
<tr>
<td>6:30-7:30 AM</td>
<td>Coffee and Exhibits</td>
<td>Grand Foyer</td>
</tr>
<tr>
<td>8:00 AM-Noon</td>
<td>Poster Session III Set-up</td>
<td>Riverside East</td>
</tr>
<tr>
<td>7:30-9:30 AM</td>
<td>Session 13: Concurrent D: Primary Care Track: Emerging Issues in Hypertension Management</td>
<td>Grand BD</td>
</tr>
<tr>
<td>7:30-9:00 AM</td>
<td>Session 13: Concurrent A: Vascular Biology</td>
<td>Columbus ABCD</td>
</tr>
<tr>
<td>7:30-9:00 AM</td>
<td>Session 13: Concurrent B: Renal Hemodynamics and Tubular Transport</td>
<td>Columbus EF</td>
</tr>
<tr>
<td>7:30-9:00 AM</td>
<td>Session 13: Concurrent C: Hypertension Journal Case Studies</td>
<td>Columbus KL</td>
</tr>
<tr>
<td>9:00-9:30 AM</td>
<td>Donald Seldin Award Lecture</td>
<td>Grand CDEF</td>
</tr>
<tr>
<td>9:30-10:00 AM</td>
<td>Break – Refreshments and Exhibits</td>
<td>Grand Foyer</td>
</tr>
<tr>
<td>9:30-10:00 AM</td>
<td>Target: BP Connect LIVE! A new opportunity to discuss proven ways to improve blood pressure (BP) control for your patients and learn more about implementing the BP improvement program.</td>
<td>Columbus G</td>
</tr>
<tr>
<td>10:00-10:30 AM</td>
<td>Session 14: Harriet Dustan Award Lecture</td>
<td>Grand CDEF</td>
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<tr>
<td>10:30 AM-Noon</td>
<td>Session 14: Concurrent A: Blood Pressure Monitoring, Control and Adherence to Treatment</td>
<td>Columbus ABCD</td>
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<tr>
<td>10:30 AM-Noon</td>
<td>Session 14: Concurrent B: Clinical Trials, Antihypertensive Drugs and Pharmacology</td>
<td>Columbus EF</td>
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<tr>
<td>10:30 AM-Noon</td>
<td>Session 14: Concurrent C: Neurogenic Mechanisms I</td>
<td>Columbus KL</td>
</tr>
<tr>
<td>10:00 AM-Noon</td>
<td>Session 14: Concurrent D: Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines Part 3: Special Situations</td>
<td>Grand BD</td>
</tr>
<tr>
<td>Noon-1:30 PM</td>
<td>Satellite Symposium: Renal Denervation and Blood Pressure Control: A Clinical Trial Update. Supported by the Cardiovascular Research Foundation. Complimentary lunch provided by The American Heart Association to the first 200 attendees.</td>
<td>Grand AC</td>
</tr>
<tr>
<td>Noon-1:30 PM</td>
<td>Lunch on Your Own</td>
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*Become an AHA/ASA Professional Member and save on next year’s registration.*
### Room Locator (continued)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>1:30-3:00 PM</td>
<td>Poster Session III</td>
<td>Riverside East</td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td>Session 15: Clinical Practice Clinical Science Track: Taking Hypertension into the Community: Part One: The Barbershop</td>
<td>Grand BD</td>
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<tr>
<td>3:00-3:30 PM</td>
<td>Break – Refreshments and Exhibits</td>
<td>Grand Foyer</td>
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<tr>
<td>3:30-5:30 PM</td>
<td>Session 16: Concurrent A: Salt and Hypertension</td>
<td>Columbus ABCD</td>
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<tr>
<td>3:30-5:30 PM</td>
<td>Session 16: Concurrent B: Aldosterone, Receptors and Other Hormones</td>
<td>Columbus EF</td>
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<td>3:30-5:30 PM</td>
<td>Session 16: Concurrent C: Asian</td>
<td>Pacific Symposium on Cardiovascular Research</td>
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<tr>
<td>3:30-5:30 PM</td>
<td>Session 16: Concurrent D: Clinical Practice Clinical Science Track: AHA Council on Hypertension/ESC Council on Hypertension Joint Session</td>
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<td>5:30-5:45 PM</td>
<td>Break – Refreshments and Exhibits</td>
<td>Grand Foyer</td>
</tr>
<tr>
<td>5:45-6:30 PM</td>
<td>Session 17: The Excellence Award for Hypertension Research Lecture</td>
<td>Grand CDEF</td>
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<tr>
<td>7:00-7:30 PM</td>
<td>Social (Cash Bar; Dinner Tickets Required for Entrance)</td>
<td>Crystal Ballroom BC</td>
</tr>
<tr>
<td>7:30-10:30 PM</td>
<td>Annual Hypertension Scientific Sessions Awards Banquet (Tickets Required for Entrance)</td>
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### Sunday, September 9, 2018

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<td>6:30-11:00 AM</td>
<td>Speaker Resource Room</td>
<td>Grand Suite 3</td>
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<tr>
<td>6:30-8:00 AM</td>
<td>Coffee</td>
<td>Grand Foyer</td>
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<tr>
<td>7:00-11:00 AM</td>
<td>Science News</td>
<td>Grand Office A</td>
</tr>
<tr>
<td>7:30-9:00 AM</td>
<td>Session 18: Concurrent A: Neurogenic Mechanisms II</td>
<td>Columbus ABCD</td>
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<tr>
<td>7:30-9:00 AM</td>
<td>Session 18: Concurrent B: Vascular Stiffness</td>
<td>Columbus EF</td>
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<td>7:30-9:00 AM</td>
<td>Session 18: Concurrent C: Epidemiology, Genetics and Epigenetics</td>
<td>Columbus KL</td>
</tr>
<tr>
<td>8:00-9:20 AM</td>
<td>Session 18: Concurrent D: Clinical Practice Clinical Science Track: Getting It Done: Practical Ways to Improve Blood Pressure Control Part 1</td>
<td>Grand BD</td>
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<tr>
<td>9:00-9:30 AM</td>
<td>Session 18: The Lewis K. Dahl Award Lecture</td>
<td>Grand CDEF</td>
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<tr>
<td>9:20-10:00 AM</td>
<td>Break – Refreshments</td>
<td>Grand Foyer</td>
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<tr>
<td>9:40-11:00 AM</td>
<td>Session 19: Concurrent D: Clinical Practice Clinical Science Track: Getting It Done: Practical Ways to Improve Blood Pressure Control Part 2</td>
<td>Grand BD</td>
</tr>
<tr>
<td>10:00-11:30 AM</td>
<td>Session 19: Concurrent A: Oxidative Stress, Nitric Oxide, Endothelin, and Other Endothelial Factors</td>
<td>Columbus ABCD</td>
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<tr>
<td>10:00-11:30 AM</td>
<td>Session 19: Concurrent B: Inflammation, Immunity and Cytokines II</td>
<td>Columbus EF</td>
</tr>
<tr>
<td>10:00-11:30 AM</td>
<td>Session 19: Concurrent C: Pregnancy and Preeclampsia II</td>
<td>Columbus KL</td>
</tr>
</tbody>
</table>
Hotel Maps

EAST TOWER

WEST TOWER

ESCALATORS, ELEVATORS AND RESTROOMS are indicated on each floor. Elevators are conveniently located throughout the hotel for guests with disabilities or where no escalator is present.

CROSSING BETWEEN TOWERS: Cross between towers via the Skybridge or the Concourse. You may also cross from the lobby level via the crosswalk on Stetson Drive.
Program Information

Conference Summary
For 2018, the American Heart Association’s Council on Hypertension and Council on the Kidney in Cardiovascular Disease, and the American Society of Hypertension, are combining efforts to bring you one of the most important medical meetings in this field in the world. The conference will include oral and poster presentations selected from abstracts submitted by clinical and basic researchers, followed by discussions led by leading authorities.

With experts in the fields of hypertension and its relationship to cardiac and kidney disease, stroke, obesity and genetics, attendees will have the opportunity to connect with cross-disciplinary researchers and clinicians from around the world.

The meeting includes several interactive sessions designed to benefit trainees and early career investigators, including a trainee poster session to highlight innovative research and how-to sessions that provide in-depth information about a range of topics related to the study of hypertension. To include a focus on clinicians, we have added the Primary Care and Clinical Practice Clinical Science Tracks.

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

1. Discuss changes to the AHA/ACC guidelines for the management of hypertension and their clinical implications.
2. Describe opportunities to improve blood pressure measurement in the clinical setting to provide more accurate results.
3. 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.
4. Educate participants about medical approaches for the management of comorbid obesity in patients with hypertension.
5. Describe new and emerging strategies for treating resistant hypertension.
6. Describe participants on the impact of value-based reimbursement on hypertension management and identify opportunities to improve its management.

Hypertension
An American Heart Association Journal

Rapid Publication Online
Open Access Options for Original Research

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

Visit Our Booth and Talk to the Managing Editor To Learn More
Program Information (continued)

Conference Highlights

Opening Session and Lecture
Please join us at 7:45 AM Thursday in Grand CDEF for a prerecorded welcome address from AHA President Ivor Benjamin, MD, FAHA, and opening remarks from Karen Griffin, MD, FAHA, chair of the Hypertension Planning Committee, and Joey Granger, PhD, FAHA, chair of the Council on Hypertension.

Poster Session Featuring Trainees
Riverside East
5:30-7:30 PM Thursday
1:30-3:00 PM Friday
1:30-3:00 PM Saturday
This year’s poster sessions will highlight presentations by trainees and feature the annual on-site poster competition during Poster Session I on Friday at 5:30-7:30 PM. Awards are co-sponsored by the Council on Hypertension’s Trainee Advocacy Committee and the International Society of Hypertension New Investigator Committee. Be sure to join us and engage conference poster presenters on their innovative research. A reception will be held during Poster Session I. There’s no additional fee for this event.

Awards Session
Grand CDEF
5:30-6:45 PM Friday
The awards 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 the Stephanie Watts Career Development Award Finalist Competition.

See pages 14 for a listing of all awardees and join us for this special session

ASIAN/PACIFIC Symposium on Cardiovascular Research
Columbus KL
3:30-5:30 PM Saturday
The session is in collaboration with the Japanese Society of Hypertension, Sun Yat-Sen University Zhongshan Medical School, China and the Australian Council for High Blood Pressure Research.

Hypertension Journal Case Study Session
Columbus KL
7:30-9:00 AM Saturday
This filmed audience participatory session, sponsored by Hypertension, an American Heart Association journal representing the Council on Hypertension, the Council on the Kidney in Cardiovascular Disease, and in cooperation with the Inter-American Society of Hypertension, 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.

NEW! Annual Hypertension Scientific Sessions Awards Banquet
Crystal Ballroom BC
7:30-10:30 PM Saturday
Members and non-members are welcome! Join us in celebrating and recognizing all of our awardees, including the recipients of the Excellence Award for Hypertension Research, Dr. R. Clinton Webb and Dr. Paul K. Wheiton. If you didn’t pre-register for this event, please visit the conference registration desk to see if tickets are still available. Details on the 2018 award winners can be found on page 14.

Expert Theater
Grand AC
Noon-1:00 PM Friday
Join us for complimentary lunch* in an Expert Theater while learning about the Long-Term Results of Treatment Across a Broad Range of Patients With Type 2 Diabetes.

*Complimentary lunch provided by the American Heart Association to the first 200 attendees. This event is supported by Janssen Pharmaceuticals, Inc and is not part of the official Council on Hypertension 2018 as planned by the AHA Committee on Scientific Sessions Program.
Program Information (continued)

Target: BP Connect LIVE!
Columbus G
9:30-10:00 AM Saturday
A new opportunity to discuss proven ways to improve blood pressure (BP) control for your patients and learn more about implementing the BP improvement program.

Satellite Symposium
Grand AC
Noon-1:30 PM Saturday
Join us for complimentary lunch* in a Satellite Symposium to discuss Renal Denervation and Blood Pressure Control: A Clinical Trial Update
*Complimentary lunch provided by the American Heart Association to the first 200 attendees. This event is sponsored by Cardiovascular Research Foundation and supported through educational grants from Medtronic and Recor Medical.

Trainee/Early Career Focused Events
We are pleased to offer numerous events for early-career attendees:

- Noon-1:30 PM Thursday – CHAMP Kickoff Lunch (invitation only) in Randolph 3 featuring “How to map your scientific independence during your postdoctoral training”.
- 5:30-7:30 PM Thursday – Poster Session I in Riverside East featuring the trainee on-site poster competition and reception. There is no fee for this event.
- 1:30-3:00 PM Friday – Poster Session II in Riverside East featuring trainees.
- 4:00-5:30 PM Friday – Hypertension Early Career Oral Award Session in Columbus EF. The session features the best of the best top trainee oral abstract presentations. The winner will receive the Hypertension Early Career Award sponsored by Hypertension, the Council on Hypertension Trainee Advocacy Committee and The British and Irish Society of Hypertension and the International Society of Hypertension New Investigator Committee.
- 7:00-11:00 PM Friday – Trainee Advocacy Mixer in Crystal Ballroom. The popular annual event is co-sponsored by the Trainee Advocacy Committee of the Council on Hypertension and the Kidney in Cardiovascular Disease. (open to all attendees)

The American Heart Association Trainee Advocacy Committee would like to thank the International Society of Hypertension New Investigator Committee for its support of the travel awards and mixer events.

Exhibits
Exhibits are located in Grand Foyer beginning at 7:00 AM Thursday. Please take a moment to visit our exhibitors. Refreshments will also be available in the Grand Foyer in the morning and during breaks.

Exhibitor Hours:
- 7:00 AM–3:30 PM Thursday
- 7:00 AM–3:30 PM Friday
- 6:00 AM–5:45 PM Saturday
The Council on Hypertension is pleased to present …

The Excellence Award for Hypertension Research

Saturday, September 8, 2018

A Study of the Innate Immune Response in Hypertension

R. Clinton Webb, PhD, FAHA
Herbert S. Kupperman Chair in Cardiovascular Disease, Regents' Professor and Chairperson; Department of Physiology; Professor, Department of Surgery and Department of Graduate Studies; Augusta University/Medical College of Georgia, Augusta, Georgia

Clinical Trials and Practice Guidelines: Evidence-Based Progress in Lowering Blood Pressure

Paul K. Whelton, MB, MD, MSc, FAHA
Clinical Professor Show Chwan Health System Endowed Chair in Global Public Health, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana

Lectures
5:45 PM
Grand CDEF

Annual Hypertension Scientific Sessions Awards Social
7:00 PM
Crystal Ballroom BC
(Dinner ticket required for entrance)

Annual Hypertension Scientific Sessions Awards Banquet
7:30 PM
Crystal Ballroom BC
(Dinner ticket required for entrance)
Conference Awards

**Irvine Page & Alva Bradley Lifetime Achievement Award**

William C. Cushman, MD, FAHA, University of Tennessee College of Medicine, Memphis, Tennessee

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 Lifetime Achievement 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. We are pleased to present this year’s award to Dr. William C. Cushman, University of Tennessee College of Medicine. Please join us for the plaque presentation during the Awards Banquet at 7:30 PM Saturday in Crystal Ballroom BC.

**The Marvin Moser Clinical Hypertension Award**

Brent M. Egan, MD, FAHA, Care Coordination Institute, Greenville, South Carolina

The Marvin Moser Clinical Hypertension Award was established in 2018 to honor 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, DC 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. We are pleased to present this year’s award to Dr. Brent M. Egan, Care Coordination Institute. Please join us for this plaque presentation during the Awards Banquet at 7:30 PM Saturday in Crystal Ballroom BC.

**Arthur C. Corcoran Memorial Lecture**

Virend K. Somers, MD, FAHA, Mayo Clinic College of Medicine, Rochester, Minnesota

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. The lecture will be presented by Dr. Virend K. Somers, at 3:30-4:00 PM Friday in Grand CDEF.

**The Lewis K. Dahl Memorial Lecture**

Dominik N. Müller, PhD, Experimental and Clinical Research Center, Berlin, Germany

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. Dominik N. Müller will present the lecture at 9:00-9:30 AM Sunday in Grand CDEF.

**The Harriet Dustan Award**

Barbara T. Alexander, PhD, FAHA, The University of Mississippi Medical Center, Jackson, Mississippi

The Harriet Dustan Award recognizes female investigators who have made outstanding contributions in the field of hypertension. This award was established in 2008 to honor 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*. This year’s honoree, Dr. Barbara T. Alexander, will present the lecture at 10:00-10:30 AM, Saturday in Grand CDEF.
The Donald Seldin Lecture
Paul A. Welling, MD, FAHA, University of Maryland School of Medicine, Baltimore, Maryland
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 awareness about the rising epidemic of cardiovascular disease and mortality in patients with chronic kidney disease. The lecture will be presented by Dr. Paul A. Welling at 9:00-9:30 AM Saturday in Grand CDEF.

Mid-Career Award for Research Excellence
Jennifer C. Sullivan, PhD, FAHA, Augusta University, Augusta, Georgia
The award recognizes a mid-career investigator active in hypertension or cardiovascular research. This year’s winner, Dr. Jennifer C. Sullivan, was selected for her major contributions to the field of hypertension. She will present at 5:30-5:45 PM Friday in Grand CDEF.

The Harry Goldblatt New Investigator Award
Amy C. Arnold, PhD, FAHA, Pennsylvania State University College of Medicine, Hershey, Pennsylvania
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. The model provided researchers with the tools to delineate the renin-angiotensin system of blood pressure control and, eventually, to design enzyme inhibitors for the treatment of chronic hypertension. This year’s winner, Dr. Amy C. Arnold, will present at 5:45-6:00 PM Friday in Grand CDEF.

The Stephanie Watts Career Development Award Finalists
The award supports young investigators working in hypertension and cardiovascular research who show exceptional promise but may be currently unfunded or have limited access to extramural funding. The Stephanie Watts Career Development Award was established to honor 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. The works of Dr. Watts led to the creation of the Trainee Advocacy Committee, which she chaired in 2005-07. As a founding member of the TAC, she contributed to the planning of the Hypertension Summer School, another important Council on Hypertension past initiative that helped many trainees to become highly skilled hypertension researchers. This year’s finalists will present during Session 12 on Friday in Grand CDEF.

Katrina M. Mirabito Colafella, PhD, Monash University, Victoria, Australia, will present her pitch, Angiogenesis Inhibition-Induced Hypertension and Renal Injury: Prevention by Aspirin? at 6:30-6:35 PM Friday.

Nirupama Ramkumar, MD, MPH, University of Utah, Salt Lake City, Utah, will present her pitch, Increased Urinary Prorenin and sPRR Excretion in Early Type 1 Diabetes at 6:35-6:40 PM Friday.

Jennifer L. Sones, DVM, PhD, Louisiana State University School of Veterinary Medicine, Baton Rouge, Louisiana, will present her pitch, White Adipose Tissue in the Preeclamptic-like BPH/5 Mouse has a Unique Molecular Signature during Early Pregnancy at 6:40-6:45 PM Friday.
British and Irish Hypertension Society Young Investigator Award
Luca Faconti, King’s College London, England, winner of the BIHS Young Investigator Prize, will present abstract *Effects of Lower Limb Venous Occlusion on Cardiac Preload, Blood Pressure and Ventricular Function* at 6:00-6:15 PM Friday in Grand CDEF.

High Blood Pressure Research Council of Australia Award
Ashenafi Haileyesus Betrie, University of Melbourne, Victoria, Australia, winner of the HBPRCA Prize, will present abstract, *Zinc Ionophores as Novel Vasodilator Agents* at 6:15-6:30 PM Friday in Grand CDEF.

### Abstract Awards

**Council on Hypertension New Investigator Travel Award**
*Sponsored by the Council on Hypertension*

<table>
<thead>
<tr>
<th>Name</th>
<th>Abstract/Presentation Number</th>
<th>Day/Time</th>
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<tbody>
<tr>
<td>Bethany L. Dale</td>
<td>21</td>
<td>4:00 PM Thursday</td>
</tr>
<tr>
<td>Anand R. Nair</td>
<td>36</td>
<td>4:45 PM Thursday</td>
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<tr>
<td>Ravindra K. Sharma</td>
<td>37</td>
<td>5:00 PM Thursday</td>
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<tr>
<td>Angela K. Lucas-Herald</td>
<td>40</td>
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<td>Giannie Barsha</td>
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<td>Eman Y. Gohar</td>
<td>44</td>
<td>5:15 PM Friday</td>
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<td>Sumit R. Monu</td>
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<td>8:00 AM Saturday</td>
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<td>Estrellita Uijl</td>
<td>79</td>
<td>11:30 AM Saturday</td>
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<tr>
<td>Justin P. Van Beusecum</td>
<td>127</td>
<td>10:00 AM Sunday</td>
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<tr>
<td>Megan M. Shuey</td>
<td>P108</td>
<td>5:30 PM Thursday</td>
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**New Investigator Travel Award**
*Sponsored by the Council on Hypertension Trainee Advocacy Committee*

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<td>David M. Patrick</td>
<td>22</td>
<td>4:15 PM Thursday</td>
</tr>
<tr>
<td>Hannah A. Cooper</td>
<td>61</td>
<td>8:30 AM Saturday</td>
</tr>
<tr>
<td>David Ferland</td>
<td>78</td>
<td>11:15 AM Saturday</td>
</tr>
<tr>
<td>Kei Omata</td>
<td>98</td>
<td>4:15 PM Saturday</td>
</tr>
</tbody>
</table>

**Kidney Council New Investigator Award**
*Sponsored by the Council on Kidney in Cardiovascular Disease*

<table>
<thead>
<tr>
<th>Name</th>
<th>Abstract/Presentation Number</th>
<th>Day/Time</th>
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<tbody>
<tr>
<td>Carmen De Miguel</td>
<td>1</td>
<td>1:45 PM Thursday</td>
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<tr>
<td>Jie Zhang</td>
<td>2</td>
<td>2:00 PM Thursday</td>
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<tr>
<td>Lajos Markó</td>
<td>38</td>
<td>5:30 PM Thursday</td>
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<tr>
<td>Hong Xue</td>
<td>54</td>
<td>5:00 PM Thursday</td>
</tr>
<tr>
<td>Chiao Zhang</td>
<td>56</td>
<td>5:30 PM Thursday</td>
</tr>
<tr>
<td>Alfonso Erin</td>
<td>63</td>
<td>7:45 AM Saturday</td>
</tr>
<tr>
<td>Daian Chen</td>
<td>89</td>
<td>4:15 PM Saturday</td>
</tr>
<tr>
<td>Jing Wu</td>
<td>94</td>
<td>5:30 PM Saturday</td>
</tr>
<tr>
<td>Wissam A AbouAlaiwi</td>
<td>P148</td>
<td>7:30 PM Thursday</td>
</tr>
<tr>
<td>Shirin Pourafshar</td>
<td>P158</td>
<td>7:30 PM Thursday</td>
</tr>
</tbody>
</table>
**Program Information**

**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>
<thead>
<tr>
<th>Name</th>
<th>Abstract/Presentation Number</th>
<th>Day/Time</th>
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</thead>
<tbody>
<tr>
<td>Mohammad Saleem</td>
<td>45</td>
<td>4:00 PM Friday</td>
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<tr>
<td>Daniela R. Dartora</td>
<td>46</td>
<td>4:15 PM Friday</td>
</tr>
<tr>
<td>Andrew C. Tiu</td>
<td>47</td>
<td>4:30 PM Friday</td>
</tr>
<tr>
<td>Edem Binka</td>
<td>48</td>
<td>4:45 PM Friday</td>
</tr>
<tr>
<td>Karla B. Neves</td>
<td>49</td>
<td>5:00 PM Friday</td>
</tr>
<tr>
<td>Antonio Giaimo</td>
<td>50</td>
<td>5:15 PM Friday</td>
</tr>
</tbody>
</table>

**AFHRE Travel Award for Patient-Oriented or Clinical Research in Hypertension**

Supported 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. The new 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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Abstract/Presentation Number</th>
<th>Day/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dominique M. Bovée</td>
<td>53</td>
<td>4:30 PM Friday</td>
</tr>
<tr>
<td>George Roush</td>
<td>75</td>
<td>10:30 AM Saturday</td>
</tr>
<tr>
<td>Alejandro Sanchez Nadales</td>
<td>P115</td>
<td>5:30 PM Thursday</td>
</tr>
<tr>
<td>Anna Shalimova</td>
<td>P195</td>
<td>5:30 PM Thursday</td>
</tr>
<tr>
<td>Catherine G. Derington</td>
<td>P208</td>
<td>5:30 PM Thursday</td>
</tr>
<tr>
<td>Anja Mährer</td>
<td>P211</td>
<td>5:30 PM Thursday</td>
</tr>
<tr>
<td>Cesar A. Romero</td>
<td>P213</td>
<td>5:30 PM Thursday</td>
</tr>
<tr>
<td>Vincent P. Lombardi</td>
<td>P349</td>
<td>1:30 PM Saturday</td>
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<tr>
<td>Ayodeji Oso</td>
<td>P364</td>
<td>1:30 PM Saturday</td>
</tr>
<tr>
<td>Andras Balogh</td>
<td>P372</td>
<td>1:30 PM Saturday</td>
</tr>
<tr>
<td>Zhiyi Ma</td>
<td>P402</td>
<td>1:30 PM Saturday</td>
</tr>
<tr>
<td>Yuechun Shen</td>
<td>P403</td>
<td>1:30 PM Saturday</td>
</tr>
</tbody>
</table>

**Clinical Science Investigator Award for Excellence in Translational or Clinical Hypertension Research**

Supported by the journal, Clinical Science (www.clinsci.org)

Fnu Mohammed Arif, MD, University of Cincinnati, Cincinnati, Ohio

**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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Abstract/Presentation Number</th>
<th>Day/Time</th>
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</thead>
<tbody>
<tr>
<td>Norihiko Morisawa</td>
<td>P220</td>
<td>5:30 PM Thursday</td>
</tr>
<tr>
<td>Kenichi Katsurada</td>
<td>084</td>
<td>11:15 AM Saturday</td>
</tr>
<tr>
<td>Qin Wang</td>
<td>068</td>
<td>8:45 AM Saturday</td>
</tr>
</tbody>
</table>
General Information

**Registration**

Conference registration is located in the Grand Foyer at the Hyatt Regency Chicago. 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 the Golden Gate Room. 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, September 14 can visit the speaker ready room at 3:00-7:00 PM Wednesday, September 13. 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 during the following hours:

- 3:00-7:00 PM Wednesday
- 7:00 AM-7:00 PM Thursday
- 7:00 AM-7:00 PM Friday
- 6:00 AM-7:00 PM Saturday
- 6:00-11:00 AM Sunday

**Abstract Information**

Abstracts 001-137 will be presented as oral presentations throughout the conference. Please note that orals with a box around them denotes a clinical oral presentation.

Abstracts P109-P237 will be presented at this year’s annual Trainee On-site Poster Competition at 5:30-7:30 PM Thursday.

Abstracts P238-P321 and P322-P403 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 43.

**ePosters**

ePosters and QR Codes with Audio/Video

We are excited to offer ePosters at Hypertension 2018! 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 and listen to any recorded narration or videos the presenter may have provided. ePosters and abstracts can be viewed online at https://htn.apprior.org.

**Continuing Medical Education Accreditation**

In support of improving patient care, this activity has been planned and implemented by the American Heart Association. The American Heart Association is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

**AMA Credit Designation Statement – Physicians**

The American Heart Association designates this live activity for a maximum of 26.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**AAPA Credit Acceptance Statement – Physician Assistants**

AAPA accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit™ from organizations accredited by ACCME or a recognized state medical society. Physician assistants may receive a maximum of 26.25 hours of Category I credit for completing this program.

**AANP Credit Acceptance Statement – Nurse Practitioners**

American Academy of Nurse Practitioners (AANP) accepts AMA PRA Category 1 Credit™ from organizations accredited by the ACCME.

**AMA Credit must be claimed within 6 months of attendance. Credit will no longer be available to claim after March 9, 2019.**

**ANCC Credit must be claimed within 6 months of attendance. Credit will no longer be available to claim after March 9, 2019.**
General Information

Get social at Hypertension 2018!
Tweet from the meeting! Follow @AHAMeetings and @AHAScience Tweet, retweet, or add your favorite conference photo. Please use hashtag #Hypertension18.
Join our AHA Early Career Group on Facebook! facebook.com/groups/ahaearlycareer
Follow The Early Career Voice Blog! earlycareervoice.professional.heart.org

AHA Volunteer Opportunities
Let us know how you would like to get involved! Complete the Science Volunteer Online form at professional.heart.org/volunteerform!

Policy Information

Disclaimer
The Hypertension 2018 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 2018 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 America 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 of the speaker.
2. Audiotape recording for strictly personal and non-commercial use is permitted if not disruptive; and exhibitors may photograph their own booth for promotional purposes upon prior written consent of the AHA/ASA.

Conference Photography
Please be aware that during Hypertension 2018 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, 2018.

No-Smoking Policy
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-served 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 symposium. 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.
## Program Agenda

**THURSDAY, SEPTEMBER 6**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration/Information Desk Open, Exhibits and Refreshments</td>
<td>Grand Foyer</td>
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<tr>
<td>7:45–8:15 AM</td>
<td>Opening Remarks</td>
<td>Grand CDEF</td>
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<tr>
<td>7:45</td>
<td>AHA President’s Welcome Address</td>
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<td></td>
<td>Ivor Benjamin, MD, FAHA, President, American Heart Association</td>
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<tr>
<td>8:00</td>
<td>Opening Remarks</td>
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<td></td>
<td>Karen Griffin, MD, FAHA, Chair, Fall Specialty Conference Planning Committee</td>
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<tr>
<td>8:05</td>
<td>Welcome</td>
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<td></td>
<td>Joey Granger, PhD, FAHA, Chair, Council on Hypertension</td>
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</tr>
<tr>
<td>8:15–10:00 am</td>
<td>Session 1: Recent Advances in Hypertension</td>
<td>Grand CDEF</td>
</tr>
<tr>
<td>Chairs:</td>
<td>Joey Granger, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi</td>
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<td></td>
<td>John Bisognano, MD, PhD, FAHA, University of Rochester Medical Center, Rochester, New York</td>
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<tr>
<td>8:15</td>
<td>Highlights of the New Hypertension Guidelines</td>
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<td>Jan Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina</td>
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<td>8:40</td>
<td>Implementation of the New Hypertension Guidelines</td>
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<td>Brent Egan, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina</td>
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<tr>
<td>9:05</td>
<td>Clinical Hypertension Research: Where Do We Go from Here?</td>
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<td></td>
<td>Suzanne Oparil, MD, FAHA, University of Alabama, Birmingham, Alabama</td>
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<tr>
<td>9:30</td>
<td>Recent Advances and Future Directions in Basic Research</td>
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<td></td>
<td>David Ellison, MD, FAHA, Oregon Health Sciences University, Portland, Oregon</td>
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<tr>
<td>10:00–11:10 am</td>
<td>Session 2 Recent Advances</td>
<td>Grand CDEF</td>
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<tr>
<td>Chair:</td>
<td>David G. Harrison, MD, FACC, FAHA, Associate Editor of Hypertension</td>
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<tr>
<td>10:00–11:10 am</td>
<td>Lifestyle Modifications and Impact on BP</td>
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<tr>
<td>10:30</td>
<td>Optimizing Cardiometabolic Health</td>
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<td>Robert J. Chilton, DO, FACC, FAHA, University of Texas Health Science Center, San Antonio, Texas</td>
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<tr>
<td>10:50</td>
<td>The Anti-Aging Effects of Aerobic Exercise on Systemic Arteries</td>
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<td>Hirofumi Tanaka, PhD, University of Texas at Austin, Austin, Texas</td>
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<tr>
<td>11:10 AM–Noon</td>
<td>Session 3 Recent Advances</td>
<td>Grand CDEF</td>
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<tr>
<td>Chair:</td>
<td>Suzanne Oparil, MD, FAHA, Consulting Editor of Hypertension</td>
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<tr>
<td>11:10</td>
<td>Obesity Paradox in Hypertension: Should the SNS Be a Target to Improve Cardiometabolic Risk?</td>
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<td>Elisabeth Lambert, Swinbourne University of Technology, Melbourne, Australia</td>
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<tr>
<td>11:35</td>
<td>Cardiovascular Disease and Obesity: Recent Advances and Future Directions</td>
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<td>John Hall, PhD, FAHA, University of Mississippi, Jackson, Mississippi</td>
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</tbody>
</table>

**Noon–1:30 PM**

Lunch available on your own

**1:30–3:00 PM**

**Session 4 Concurrent A**

**Obesity, Diabetes, and Metabolic Syndrome**

**Columbus ABCD**

**Chairs:**

Kamal Rahmouni, PhD, FAHA University of Iowa Carver College of Medicine, Iowa City, Iowa
Carmen De Miguel, PhD, University of Alabama Birmingham, Birmingham, Alabama

**Oral Abstract Presentations**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30</td>
<td>Loss of ETB Receptor Function Activates Inflammasome Signaling Pathways and Dendritic Cells in the Renal Outer Medulla during Type 1 Diabetes</td>
<td>Carmen De Miguel, David M Pollock, Jennifer S. Pollock, University of Alabama at Birmingham, Birmingham, AL</td>
</tr>
</tbody>
</table>
Program Agenda (continued)

1:45 Macula Densa SGLT1-NOS1-TGF Pathway - A New Mechanism for Glomerular Hyperfiltration in Diabetes Jie Zhang, Shan Jiang, Jin Wei, Lei Wang, Ruisheng Liu, The University of South Florida, Tampa, FL

2:00 Mtap2 Dissociate Mc4r-mediated Sympathetic Control of Metabolism and Blood Pressure Deng-Fu Guo, Balyssa Bell, Donald A Morgan, Huxing Cui, Julien A Sebag, Kamal Rahmouni, The University of Iowa, Iowa City, IA

2:15 Caloric Restriction Prevents the Increase in Body Weight but not Hypertension in ALMS1 (Alström syndrome 1) Knockout Rat Keyona N. King-Medina, Wayne State Univ Sch of Med, Westland, MI; Pablo A. Ortiz, Henry Ford Hosp, Hypertension and Vascular Res Div, Dept of Internal Med, Wayne State Univ Sch of Med, Detroit, MI

2:30 Hemodynamic and Renal Changes in in Obese Patients 12 Months After Bariatric Surgery Anna Oliveras, Ana M Granados, Sara Alvarez, Albert Goday, Laia Sans, Susana Vazquez, Anna Faura, Julio Pascual, Hosp del Mar, Barcelona, Spain


1:30–3:00 PM Session 4 Concurrent B Cardiac Hypertrophy and Dysfunction Columbus EF

Chairs:
Robert S. Danziger, MD, University of Chicago, Chicago, Illinois
Yoshihiro Kokubo, PhD, FAHA, National Cerebral and Cardiovascular Center Suita, Osaka, Japan

Oral Abstract Presentations
1:30 Exogenous Delivery Of Alpha-calcitonin Gene Related Peptide Inhibits Apoptosis and Oxidative Stress And Protects Against Pressure-induced Congestive Heart Failure Ambrish Kumar, Scott Supowit, Jay D. Potts, Donald J. DiPette, Univ of South Carolina, Columbia, SC

1:45 Chronic Central Melanocortin 4 Receptor Activation Attenuates Cardiac Dysfunction After Myocardial Infarction in Rats Fabio N. Gava, Alexandre A. da Silva, John E. Hall, Jussara M. do Carmo, UMMC, Jackson, MS

2 2:00 Regulatory Role Of Endothelial Sirt3 on Blood Pressure and Diastolic Dysfunction in a Female Mice Heng Zeng, Rebecca A. Worsham, Jian Xiong Chen, University Mississippi Medical Ctr, Jackson, MS

3 2:15 Dual Loss of RGS2 and 5 Exacerbates the Progression of Cardiac Hypertrophy in Mice Chronically Treated with Isoproterenol Shelby A. Dahlen, Ipsita Mohanty, Ursula Djamali, Alethia Edwards, Jennifer Koch, Patrick Osei Owusu, Drexel University College of Med, Philadelphia, PA

4 2:30 Regression of Left Ventricle Hypertrophy and Improvement of Ventricular Dysfunction After Renal Revascularization is Dependent of Blood Pressure Response and Etiology of Renal Artery Stenosis Luiz Borototto, Thiago A. Macedo, Luis J. Kajita, Heart Inst (InCor), São Paulo, Brazil; Julio C. Marino, Heart Inst (InCor), São Paulo, France; Jose J De Lima, Heart Inst (InCor), São Paulo, Brazil

2:45 Canstatin, a Fragment of Type IV Collagen α2 Chain, Inhibits Isoproterenol-induced Cardiac Hypertrophy in Rats Akira Sugiyama, Muneyoshi Okada, Hideyuki Yamawaki, Sch of Veterinary Med, Kitasato Univ, Towada

1:30–3:00 PM Session 4 Concurrent C Pregnancy and Preeclampsia Columbus KL

Chairs:
Jean F. Regal, PhD, University of Minnesota Medical School, Duluth, Minnesota
Junie P. Warrington, PhD, University of Mississippi Medical Center, Jackson, Mississippi

Oral Abstract Presentations
1:30 Soluble Guanylate Cyclase Activators Improve Vascular Function and Attenuate Placental Ischemia-Induced Hypertension Bhavisha A. Bakrania, Frank T. Spradley, Adam B. Travis, Univ of Mississippi Med Ctr, Jackson, MS; Peter Sandner, Bayer AG, Wuppertal, Germany; Joey P. Granger, Univ of Mississippi Med Ctr, Jackson, MS

1:45 Betamethasone: a Novel Therapeutic Intervention for Preeclampsia Sabrina M. Scroggins, Donna A. Santillan, Jeremy A. Sandgren, Gary L. Pierce, Curt D. Sigmund, Justin L. Grobe, Mark K. Santillan, Univ of Iowa, Iowa City, IA

1 Become an AHA/ASA Professional Member and save on next year’s registration.
Program Agenda (continued)

2:00 Reduced Placental Expression of Regulator of G Protein Signaling-2 (RGS2) in Preeclampsia: Association, Consequence, and Cause
Katherine J. Perschbacher, Guorui Deng, Jeremy A. Sandgren, Donna A. Santillan, Eric J. Devor, Gary L. Pierce, Rory A. Fisher, Katherine N. Gibson-Corley, Mark K. Santillan, Justin L. Grobe, University of Iowa, Iowa City, IA

2:15 Placental Ischemia Exposure leads to a Pro-Inflammatory Environment in Brains of Embryonic Day 19 Rat Offspring
Junie P. Warrington, Omar C. Logue, Gene L. Bidwell, Qingmei Shao, Univ Mississippi Medical Center, Jackson, MS

2:30 Effect of Sildenafil on Nitric Oxide-Mediated Vasodilation in the Human Placenta: an Ex-Vivo Placental Perfusion Study
Emilie Hitzeder, Marjia Glisic, Katrina M. Colatella, René de Vries, Sam Schoenmakers, Daphne Merkus, Irwin K. Reiss, A. H. Danser, Sinno H. Simons, Erasmus MC, Rotterdam, Netherlands

2:45 High Stillbirth Rate and Altered Maternal Renal Function and Water Balance are Associated with Spontaneous Gestational Hypertension in Nonhuman Primates
Chelsea C Weaver, Univ of Kentucky, Lexington, KY; Frances Louard, Biomedical Science Res Group, Lexington, KY; Jeffrey L. Osborn, Univ of Kentucky; Biomedical Science Res Group, Lexington, KY

1:30–3:00 PM Session 4 Concurrent D
Clinical Practice Clinical Science Track: Aldosterone and Primary Aldosteronism in Hypertension
Grand BD
Chairs:
William C. Cushman, MD, FAHA, University of Tennessee College of Medicine, Memphis, Tennessee
John M. Flack, MD, FAHA, Southern Illinois University School of Medicine, Springfield, Illinois

1:30 The Potassium, Aldosterone, Blood Pressure Axis
David Ellison, MD, FAHA, Oregon Health Sciences University, Portland, Oregon

1:50 The New Genetics of Aldosteronism
Celso Gomez-Sanchez, MD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi

2:10 Screening and Diagnosis of Aldosteronism 2018
David A. Calhoun, MD, FAHA, University of Alabama, Birmingham, Alabama

2:30 Hyperaldosteronism as a Cause of Resistant Hypertension
Bryan Williams, MD, FAHA, University of Leicester, Leicester, England

2:05 Q&A
Panelists:
David Ellison, MD, FAHA, Oregon Health Sciences University, Portland, Oregon
Celso Gomez-Sanchez, MD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
David A. Calhoun, MD, University of Alabama, Birmingham, Alabama
Bryan Williams, MD, FAHA, University of Leicester, Leicester, England

3:00:3:30 PM Refreshment Break and Exhibits
Grand Foyer

3:30–5:30 PM Session 5 Concurrent A
Inflammation, Immunity and Cytokines I
Columbus ABCD
Chairs:
Michael J. Ryan, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Annet Kirabo, DVM, MSc, PhD, Vanderbilt University Medical Center, Nashville, Tennessee

3:30 A20 in Dendritic Cells Protects Against Hypertension by Inhibiting Dendritic Cell-Mediated T Cell Activation
Xiaohan Lu, Nathan Rudemiller, Jiandong Zhang, Jamie Privratsky, Gianna Hammer, Joyce Zhang, Yi Wen, Jiala Ren, Steven D. Crowley, Duke Univ, Durham, NC

3:45 Sex Difference in T Regulatory Cells After Adoptive Transfer From Hypertensive Donors Leads to Protection Against T Cell-mediated Hypertension in Premenopausal Female Mice

4:00 Interleukin-21 Plays a Critical Role in Hypertension And Vascular Dysfunction
### Program Agenda (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:15</td>
<td>Proteasome Inhibition Prevents Renal Inflammation and Hypertension by Abrogation of Dendritic Cell Autoantigen Presentation</td>
<td>David M Patrick, Liang Xiao, C. Wei Chen, Mingfang Ao, Annet Kirabo, David G. Harrison, Vanderbiit Univ Medical Ctr, Nashville, TN</td>
<td></td>
</tr>
<tr>
<td>4:30</td>
<td>Redox-Driven T-Lymphocyte Inflammation Sensitizes Mice to Psychological Stress-Mediated Hypertension</td>
<td>Cassandra M. Moheftegh, Christopher W. Collins, Allison J. Kohl, Safwan Elkhatab, Adam J. Case, University of Nebraska Medical Center, Omaha, NE</td>
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<td>4:45</td>
<td>Genetically Inducing Renal Lymphangiogenesis Prevents Angiotensin II-Induced Hypertension in Mice</td>
<td>Dakshnapriya Balasubbramanian, Catalina A. Lopez-Gelston, Alexandra H. Lopez, Geina I. skander, Winter Tate, Emily M. Luera, Sunitha Konatham, Joseph M. Rutkowski, Brett M. Mitchell, Texas A and M Univ HSC, College Station, TX</td>
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<td>5:00</td>
<td>Mini Review Session: Invited Lecture: Recent Advances in our Understanding of Inflammation, Immunity &amp; Cytokines</td>
<td>Ernesto Schiffrin, CM, MD, PhD, McGill University, Montreal, Canada</td>
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<td>3:30–5:30 PM</td>
<td>Session 5 Concurrent B Cerebrovascular Disease, Stroke, and Aging</td>
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<td>Chairs:</td>
<td>John Bisognano, MD, PhD, FAHA, University of Rochester Medical Center, Rochester, New York Fan Fan, MD, University of Mississippi Medical Center, Jackson, Mississippi</td>
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<td>Oral Abstract Presentations</td>
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<td>3:30</td>
<td>Cellular Mechanisms of Blood-Brain Barrier Disruption in Ang II-Induced Hypertension</td>
<td>Monica M Santisteban, Giuseppe Faraco, Diane Lane, Gianfranco Racchumi, Steven Segarra, Samantha Schaeffer, Virginia Cipollini, Josef Anrather, Costantino Iadecola, Weil Cornell Medical College, New York, NY</td>
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<td>3:45</td>
<td>High In-Hospital Systolic Blood Pressure Variability and Poor Functional Outcomes in Primary Intracerebral Hemorrhage Patients</td>
<td>Jennifer R. Meeks, Arvind B. Bambholiya, Ellie G. Meyer, Kristen B Slaughter, Christopher J. Fraher, Ritvij Bowry, Wanda O. Ahmed, Anjali Z. Shariat, Jon E. Tyson, Charles C. Miller, Univ of Texas McGovern Medical Sch, Houston, TX; Babar Khan, Indiana Univ Sch of Med, Indianapolis, IN; Steven Warach, Dell Medical Sch, Austin, TX; Louise D. McCullough, Sean I. Savitz, Farhaan S. Vahidy, Univ of Texas McGovern Medical Sch, Houston, TX</td>
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<td>4:00</td>
<td>Hyperglycemia and Oxidative Stress Contribute to Impaired Cerebral Autoregulation in Association with Dementia in Diabetes</td>
<td>Shaoxun Wang, Xiaochen He, George Booz, Richard Roman, Fan Fan, Univ of Mississippi Medical, Jackson, MS</td>
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<td>4:15</td>
<td>Susceptibility to Strokes In Spontaneously Hypertensive Rats Due to a Mutation In Stim1</td>
<td>Isha S. Dhande, Univ of Texas HSC, Houston, TX; Sterling C Kneedler, Yaming Zhu, Univ of Texas Health Science Ctr at Houston, Houston, TX; M. John Hicks, Scott E. Wenderfer, Michael C. Braun, Baylor Coll of Med, Houston, TX; Peter A. Doris, Univ of Texas Health Science Ctr at Houston, Houston, TX</td>
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<td>4:30</td>
<td>Epidemiological Study Evaluating Uncontrolled Systolic Blood Pressure in Patients ≥ 50 Years With Hypertension, in Relation to Stroke Risk and Current Antihypertensive Treatment Strategies (systup) – Analysis of India Cohort</td>
<td>Prof. Rishi Sethi, King George Medical Univ, Lucknow, India; Dr. Ashwani Mehta, Sir Ganga Ram Hosp, New Delhi, India; Dr. Viveka Kumar, Max Super Speciality Hosp, New Delhi, India</td>
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<td>4:45</td>
<td>Stem Cell-derived Extracellular Vesicles Attenuates Aging-associated Arterial Stiffness and Hypertension</td>
<td>Rui Feng, Chongqing Medical Univ, Chongqing, China; Mujib Ullah, Kai Chen, Lin Yi, University of Tennesse HSC, Memphis, TN; Han Lei, Chongqing Medical Univ, Chongqing, China; Zhongjie Sun, University of Tennessee HSC, Memphis, TN</td>
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<td>5:00</td>
<td>Thresholds for Defining Home Blood Pressure Elevation Among US Adults</td>
<td>Hamza Lodhi, Colby Ayers, Sandeep Das, Jarett Berry, Amit Khera, Univ of Texas Southwestern Medical Ctr, Dallas, TX; Ronald Victor, Cedar Sinai Medical Inst/ Hypertension Ctr, Los Angeles, CA; Feng-Chang Li, Univ of North Carolina at Chapel Hill, Chapel Hill, NC; Anthony Viera, Duke Univ, Durham, NC; Yuichiro Yano, Univ of Mississippi, Jackson, MS; James de Lemos, Wanpen Vongpatanasin, Univ of Texas Southwestern Medical Ctr, Dallas, TX</td>
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Become an AHA/ASA Professional Member and save on next year’s registration.
3:30–5:30 PM
Session 5 Concurrent C
Renin Angiotensin System
Columbus KL

Chairs:
Curt D. Sigmund, PhD, FAHA, University of Iowa Medical School, Iowa City, Iowa
Jorge F. Giani, PhD, Cedars-Sinai Medical Center, Los Angeles, California

3:30 Mini Review Session: Invited Lecture: Recent Advances in our Understanding of the Renin Angiotensin System
A. H. Jan Danser, PhD, Erasmus University Medical Center, Rotterdam, The Netherlands

Oral Abstract Presentations

4:00 Identification of a Primary Renal AT2 Receptor Defect in Spontaneously Hypertensive Rats (SHR)
Nancy L. Howell, Brandon Ambrose Kemp, Susanna R. Keller, John J. Gildea, Univ of Virginia, Charlottesville, VA; Weijian Shao, Tulane Univ, New Orleans, LA; L. Gabriel Navar, Tulane Univ, New Orleans, VA; Robert M. Carey, Univ of Virginia, Charlottesville, VA

4:15 Resilience of Isolated, Perfused Cerebral Penetrating Microarterioles to Angiotensin II (Ang II Contractions Depends on Local Generation of Prostaglandin D2 (PGD2)
Lingli Li, EnYin Lai, Zaiming Luo, Georgetown Univ Div of Nephrology, Washington, DC; Robin Davison, Cornell Univ, Itcha, NY; William Welch, Christopher S WILCOX, Georgetown Univ Div of Nephrology, Washington, DC

4:30 Increasing Renal AcSDKP by Eliminating the ACE N-domain Blocks Renal Inflammation and Sodium Retention during Diabetic Nephropathy
Jorge F. Giani, Masahiro Eriguchi, Ellen A. Bernstein, Luciana C. Veiras, Zakir Khan, Doo Y. Cao, Cedars-Sinai Medical Center, Los Angeles, CA; Sebastien Fuchs, Western Univ of Health Sciences, Pomona, CA; Alicia A. McDonough, Keck Sch of Med of USC, Los Angeles, CA; Jorge E. Toblli, Hosp Aleman, Buenos Aires, Argentina; Romer A. Gonzalez-Villalobos, Kenneth E. Bernstein, Cedars-Sinai Medical Center, Los Angeles, CA

4:45 Interference with PPARγ in the Endothelium Produces Endothelial Dysfunction in the Cerebral Circulation in Response to Activation of the Endogenous Renin-Angiotensin System
Anand R. Nair, Larry N. Agbor, Masashi Mukohda, Xuebo Liu, Chunyan Hu, Jing Wu, Curt D. Sigmund, Univ of Iowa, Iowa City, IA

5:00 Global ACE2 Over-expression Is Protective Against a Dysfunctional Brain-gut-lung Axis In Hypoxia-induced Pulmonary Hypertension

5:15 The Dual Role of B-cell Lymphoma/Leukemia 10 in Angiotensin II-induced Renal Damage
Lajos Markó, Experimental Clinical Rsrch Ctr&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BfH) &Charité, Berlin, Germany; Jürgen Ruland, Inst for Clinical Chemistry and Biochemistry, Klinikum rechts der Isar, Technical Univ of Munich, Munich, Germany; Friedrich C. Luft, Experimental Clinical Rsrch Ctr&Max Debruck Ctr for Molecular Med, Berlin, Germany; Ralf Dechend, Experimental Clinical Rsrch Ctr&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BfH) &Charité&10Helioc Clinic Berlin-Buch, Berlin, Germany; Dominik N. Müller, Experimental Clinical Rsrch Ctr&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BfH) &Charité&Max Debruck Ctr for Molecular Med, Berlin, Germany
3:50 Strategies for Control of Hypertension in Renal Transplant Recipients  
Michelle A. Josephson, MD, University of Chicago, Chicago, Illinois

4:10 State-of-the-Art on Management of Pregnancy-Associated Hypertension  
Mark Santillan, MD, PhD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa

4:30 Managing Cardiovascular Complications in Patients Treated with VEGF Inhibitors and Other Chemotherapeutic Agents  
A. H. Jan Danser, PhD, Erasmus University Medical Center, Rotterdam, The Netherlands

4:50 Treating Post Stroke Hypertension: Thresholds and Goals  
José Biller, MD, FAAN, FACP, FAHA, Loyola University Medical Center, Maywood, Illinois

5:10 Q&A

Panelists:  
Sandra J. Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota  
Michelle A. Josephson, MD, University of Chicago, Chicago, Illinois  
Mark Santillan, MD, PhD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa  
A. H. Jan Danser, PhD, Erasmus University Medical Center, Rotterdam, The Netherlands  
José Biller, MD, FAHA, Loyola University Medical Center, Maywood, Illinois

FRIDAY, SEPTEMBER 7

7:00 AM  
Registration/Information Desk Open, Exhibits and Coffee  
Grand Ballroom Foyer

8:00–9:00 AM  
Session 6 Recent Advances  
Debate: Renal Denervation – Is There a Role in Essential Hypertension?  
Grand CDEF

Chairs:  
Joseph Izzo, MD, FAHA, University of Buffalo School of Medicine, Buffalo, New York  
Henry R. Black, MD, FAHA, MACP, New York University School of Medicine, New York, New York

Pro:  
Raymond Townsend, MD, FAHA, University of Pennsylvania, Philadelphia, Pennsylvania

9:00–10:00 AM  
Session 7 Recent Advances  
Hot Topics in Hypertension  
Grand CDEF

Chair:  
Anna Dominiczak, MD, FAHA, Editor-in-Chief of Hypertension

9:00 Epigenetic Determinants of Cardiovascular Gene Expression: Vascular Endothelium  
Phil Marsden, MD, University of Toronto, Toronto, Canada

9:20 Sex Differences in Mechanisms of Hypertension Associated with Obesity  
Eric Belin de Chantemele, MS, DSc, FAHA, Augusta University, Augusta, Georgia

9:40 Q&A

10:00–10:30 AM  
Refreshment Break and Exhibits  
Grand Foyer

10:30–11:15 AM  
Session 8 Recent Advances  
Hot Topics in Hypertension  
Grand CDEF

Chair:  
Garry Jennings, MD, FAHA, Associate Editor of Hypertension

10:30 The Progression from Hypertension to Congestive Heart Failure in Patients: How Do We Stop It?  
Daniel Levy, MD, FAHA, Editor of JASH

10:50 SGLT Inhibitors for Hypertension, Renal and Cardiovascular Diseases  
Christopher Wilcox, MD, PhD, FAHA, Georgetown University Medical Center, Washington, DC

11:15 AM–Noon  
Session 9 Recent Advances  
Blood Pressure and Neurocognition  
Grand CDEF

Chair:  
Gregory Fink, PhD, FAHA, Associate Editor of Hypertension

11:15 Will the New Guidelines Affect Cognition in Adults?  
Jeff D. Williamson, MD, FAHA, Editor of JASH

11:35 BP and Cognition in Children and Adolescents  
Marc Lande, MD, MPH, University of Rochester Medical Center, Rochester, New York
Program Agenda (continued)

Noon–1:00 PM  
Expert Theater  
**Long-Term Results of Treatment Across a Broad Range of Patients With Type 2 Diabetes**  
Speaker:  
Javed Butler, MD, MPH, MBA  

Supported by Janssen Pharmaceuticals, Inc.  
Complimentary lunch provided by The American Heart Association to the first 200 attendees.

This event is not part of the official Joint Hypertension 2018 Scientific Sessions as planned by the AHA Planning Committee.

OR Lunch on Your Own

1:30–3:00 PM  
Poster Session 2  
Riverside East  
Posters P238–P321 will be presented during this session. See pages 43 for details.

1:30–3:00 PM  
Session 10  
**Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines – Part 1**  
Grand BD  

Chairs:  
Jan Basile, MD, FAHA Medical University of South Carolina, Charleston, South Carolina  
Michael J. Bloch, MD, FAHA, University of Nevada School of Medicine, Reno, Nevada

1:30  
Welcome and Introduction to Primary Care Symposia: Goals and Objectives  
Jan Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina

1:35  
What do the 2017 ACC/AHA Guidelines Actually Say?  
Sandra J. Talier, MD, FAHA, Mayo Clinic, Rochester, Minnesota

1:55  
Understanding the Data that Drove the 2017 ACC/AHA Guidelines  
Paul Muntner, PhD, MHSc, FAHA, University of Alabama, Birmingham, Alabama

2:10  
The Difference between Blood Pressure Targets and Performance Measures: Brief Explanation of the Epidemiology of Achieved Blood Pressure  
Brent M. Egan, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina

2:30  
The American College of Physicians (ACP) and American Academy of Family Physicians (AAFP) Perspective  
Marie Brown, MD, Rush University Medical Center, Chicago, Illinois

2:50  
Q&A  

Panelists:  
Jan Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina  
Sandra J. Talier, MD, FAHA, Mayo Clinic, Rochester, Minnesota  
Paul Muntner, PhD, MHSc, FAHA, University of Alabama, Birmingham, Alabama  
Brent M. Egan, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina  
Marie Brown, MD, Rush University Medical Center, Chicago, Illinois

3:00–3:30 PM  
Refreshment Break and Exhibits  
Grand Foyer

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

Chair:  
Francois M. Abboud, MD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa

3:30  
Sleep and Blood Pressure Control – Implications for Pathophysiology and Therapy  
Virend K. Somers, MD, FAHA, Mayo Clinic College of Medicine, Rochester, Minnesota

4:00–5:30 PM  
Session 11 Concurrent A  
**Gender Differences and Sex Hormones**  
Columbus ABCD  

Chairs:  
Jennifer S. Pollock, PhD, FAHA, University of Alabama Birmingham, Alabama  
Alison J. Kriegel, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin

Oral Abstract Presentations

4:00  
Differential Expression of miR-146b-5p Modulates Sex-Specific Cardiac Phenotypes in a Rat Model of Chronic Kidney Disease  
Mark Paterson, Alison J. Kriegel, Medical College Wisconsin, Milwaukee, WI

4:15  
Vascular Dysfunction and Androgen Deficiency – Insights From Children With Hypospadias  
Angela K. Lucas-Herald, Rheure Alves-Lopes, Laura Haddow, Inst for Cardiovascular and Medical Sciences, BHF Ctr for Res Excellence, Univ of Glasgow, Glasgow, United Kingdom; Stuart O’Toole, Syed Basith Arjaq, Martyn Flett, Mari Steven, Borna Lee, Dept of Paediatric Surgery, Royal Hosp for Children, Glasgow, United Kingdom; Augusto C Montezano, Inst for Cardiovascular and Medical Sciences, BHF Ctr for Res Excellence, Univ of Glasgow, Glasgow, United Kingdom

Next year’s conference: September 5-8, 2019 … visit professional.heart.org/hypertensionsessions.
United Kingdom; Syed Faisal Ahmed, Developmental Endocrinology Res Group, Sch of Med, Dentistry and Nursing, Univ of Glasgow, Glasgow, United Kingdom; Rhian M. Touyz, Inst for Cardiovascular and Medical Sciences, BHF Ctr for Res Excellence, Univ of Glasgow, Glasgow, United Kingdom

4:30  Brain Cytochrome P450 1B1-Testosterone Generated Metabolite 6Beta-hydroxytestosterone Contributes to Angiotensin II-induced Increased Sympathetic Outflow and Blood Pressure
Purnima Singh, SaeRam Oh, Shubha Ranjan Dutta, Chi Young Song, Kafait U. Malik, Univ of Tennessee, MEMPHIS, TN

4:45  Gender Differences in Response to Chronic Angiotensin-(1-7) Treatment in Obesity
Melissa White, Amanda J. Miller, Justin Loloi, Sarah Bingaman, Amy Christine Arnold, Penn State Coll of Med, Hershey, PA

5:00  Targeting The Angiotensin Type 2 Receptor With Relaxin Confers Protection Against Renal Fibrosis And Vascular Dysfunction In Female Stroke Prone-Spontaneously Hypertensive Rats
Giannie Barsha, Edmund Kwok, Katrina M. Mirabito Colafella, Lucinda M Hilliard, Tracey Gaspari, Robert E. Widdop, Chrishan S. Samuel, Katherine M Denton, Monash Univ, Melbourne, Australia

5:15  Purinoceptor-dependent Regulation of Sodium Excretion is Sexually Dimorphic
Eman Y. Gohar, Malgorzata Kasztan, Shali Zhang, Edward W. Inscho, David M. Pollock, Univ of Alabama at Birmingham, Birmingham, AL

4:00–5:30 PM  Session 11 Concurrent B

4:00  Sox6 Has Protective Role during Renal Artery stenosisS Induced Hypertension
Mohammad Saleem, Liang Xiao, Kandi Horton, Vanderbilt University Medical Center, Nashville, TN; Conrad P. Hodgkinson, Dept of Med. Duke Univ Medical Ctr, Durham, NC; Jose A. Gomez, Vanderbilt University Medical Center, Nashville, TN

4:15  Cardiac Mitochondria are Impaired After Transient Neonatal High Oxygen Exposure in a Rat Model of Prematurity-Related Condition
Daniela Ravizzoni Dartora, Ying He, Muhammad Oneeb Rehman Mian, Alyson Deprez, Camille Girard-Bock, Anik Cloutier, Dept of Pediatrics, Univ de Montréal and CHU Sainte-Justine Res Ctr, Montréal, QC, Canada; Gael Cagnone, Perrine Gaub, Jean-Sebastien Joyal, Dept of Pharmacology and Physiology, Univ de Montréal and CHU Sainte-Justine Res Ctr, Montréal, QC, Canada; Thuy Mai Luu, Dept of Pediatrics, Univ de Montréal and CHU Sainte-Justine Res Ctr, Montréal, QC, Canada; Anne Monique Nuyt, Dept of Pediatrics, Dept of Pharmacology and Physiology, Univ de Montréal and CHU Sainte-Justine Res Ctr, Montréal, QC, Canada

4:30  Sorting Nexin 19: A Novel & Key Player in Renal Dopamine D1R Regulation
Andrew C. Tiu, Albert Einstein Medical Ctr, Philadelphia, PA; Jian Yang, Laureano D. Asico, Prasad Konkalmatt, Xiaoyan Wang, Pedro A. Jose, Van Anthony M. Villar, George Washington Univ, Washington, DC

5:00  Endothelial-derived Microparticles as Biomarkers and Mediators of Endothelial Cell Injury in VEGF inhibitor-treated Cancer Patients: Implications in Hypertension
Karla B. Neves, Francisco J. Rios, Univ of Glasgow, Glasgow, United Kingdom; Martin McLeod, Experimental Cancer Med Ctr, Glasgow, United Kingdom; Judith Dixon Hughes, Cancer Res UK Glasgow Clinical Trials Unit, Glasgow, United Kingdom; Robert Jones, Jeff Evans, Augusto Montezano, Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom

5:15  Hypertensive Urgency: An Emergency Department Pipeline to Primary Care Pilot Study
Antonio Giaimo, Stephen Huot, Angela Kang, Yale Univ, New Haven, CT

Program Agenda (continued)
Program Agenda (continued)

4:00–5:30 PM
Session 11 Concurrent C
Renal Injury
Columbus KL

Chairs:
William J. Welch, PhD, FAHA, Georgetown University Medical Center, Washington, DC
Aron M. Geurts, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

Oral Abstract Presentations

4:00 High Salt Enhances ROS and Ang II Contractions of Glomerular Afferent Arterioles from Mice with Reduced Renal Mass
Lingli Li, EnYin Lai, Zaiming Luo, Glenn Solis, Margarida Mendonca, Georgetown Univ Div of Nephrology, Washington, DC; Kathy Griendling, Emory Univ, Atlanta, GA; Anton Wellstein, William Welch, Christopher S. Wilcox, Georgetown Univ Div of Nephrology, Washington, DC

4:15 Role of Dopamine D2 Receptors in the Regulation of Cell Proliferation in Renal Injury
Megha Kumar, George Washington University, Washington, DC; Laureano Asico, Prasad Konkalmatt, George Washington University, Washington, DC; Zach Freyberg, University of Pittsburgh, Washington, PA; Pedro A Jose, George Washington University, Washington, DC; Ines Armando, George Washington University, Washington, DC

4:30 Dietary Sodium Restriction versus Diuretics for Salt-sensitive Hypertension in Chronic Kidney Disease
Dominique M. Bovée, Alexander H. Danser, Robert Zietse, Ewout J. Hoorn, Erasmus Medical Ctr, Rotterdam, Netherlands

4:45 Tissue-specific Effects of Targeted Mutation of Mir29b1 in Rats
Hong Xue, Fudan Univ, Shanghai, China; Guangyuan Zhang, Aron M Geurts, Kristie Usa, David M Jensen, Yong Liu, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

5:00 ND-13, a DJ-1-derived Peptide, Protects against the Renal Fibrosis and Inflammation Associated with Unilateral Ureter Obstruction

5:15 Knockout of Dual-Specificity Protein Phosphatase 5 Protects Against Hypertension Induced Chronic Kidney Disease
Chao Zhang, Xiaochen He, Shaoxun Wang, Richard J. Roman, George Booz, Fan Fan, Univ of MS Medical Ctr, Jackson, MS

3:30–5:30 PM
Session 11 Concurrent D
Primary Care Track:
The Evolving Landscape of Blood Pressure Guidelines Part 2: Areas of Controversy
Grand BD

Chairs:
Karen Griffin, MD, FAHA, Loyola University Medical Center, Chicago, Illinois
Susan Steigerwalt, MD, FAHA, University of Michigan, Ann Arbor, Michigan

3:30 Blood Pressure Goals in Diabetes and Chronic Kidney Disease
George Bakris, MD, FAHA, University of Chicago, Chicago, Illinois

3:50 The Older Patient with Hypertension
Matthew Sorrentino, MD, FAHA, The University of Chicago Medicine, Chicago, Illinois

4:10 Treating Hypertension in Low-Risk Individuals—How Long Do We Hold Off on Pharmacologic Treatment
Stephen K. Williams, MD, MS, New York University School of Medicine, New York, New York

4:30 Can’t We All Just Get Along; Finding Consensus Among Guidelines and Statements
Michael J. Bloch, MD, FAHA, University of Nevada School of Medicine, Reno, Nevada

4:50 Case Based Discussion Panel on Areas of Controversy in the Guidelines
Chair:
F. Wilford Germino, MD, FACP, FAHA, Orland Primary Care Specialists, Chicago, Illinois

Panelists:
George Bakris, MD, FAHA, University of Chicago, Chicago, Illinois
Matthew Sorrentino, MD, FAHA, University of Chicago Medicine, Chicago, Illinois
Stephen K. Williams, MD, MS, New York University School of Medicine, New York, New York
Michael J. Bloch, MD, FAHA, University of Nevada School of Medicine, Reno, Nevada
Sandra J. Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota

Next year’s conference: September 5-8, 2019 … visit professional.heart.org/hypertensionsessions.
5:30–6:45 PM  
**Session 12**  
**Awards Session**  
Grand CDEF  

**Chairs:**  
Karen Griffin, MD, FAHA, Chair,  
Hypertension Planning Committee,  
Loyola University Medical Center, Chicago, Illinois  
Joey Granger, PhD, FAHA, Chair,  
Council on Hypertension, University of Mississippi  
Medical Center, Jackson, Mississippi  

5:30  
**Mid-Career Award for Research Excellence**  
Jennifer C. Sullivan, PhD, FAHA, Augusta University, Augusta, Georgia  

5:45  
**The Harry Goldblatt Award for New Investigators**  
Amy C. Arnold, PhD, FAHA, Pennsylvania State University College of Medicine, Hershey, Pennsylvania  

6:00  
**The British and Irish Hypertension Society Young Investigator Award**  
Luca Faconti, King’s College London, England  

6:15  
**High Blood Pressure Research Council of Australia Student Oral Award**  
Ashenafi Haileyesus Betne, University of Melbourne, Victoria, Australia  

**Stephanie Watts Career Development Award Competition**  
6:30  
**Stephanie Watts Career Development Award Competition Finalist**  
Katrina M. Mirabito Colafella, PhD, Monash University, Victoria, Australia  

6:35  
**Stephanie Watts Career Development Award Competition Finalist**  
Nirupama Ramkumar, MD, MPH, University of Utah, Salt Lake City, Utah  

6:40  
**Stephanie Watts Career Development Award Competition Finalist**  
Jennifer L. Sones, DVM, PhD, Louisiana State University School of Veterinary Medicine, Baton Rouge, Louisiana, Louisiana  

7:00–11:00 PM  
**Trainee Advocacy Mixer**  
Crystal Ballroom  

SUNDAY, SEPTEMBER 9  
6:00 AM  
**Registration/Information Desk Open, Exhibits and Refreshments**  
Grand Foyer  

7:30–9:00 AM  
**Session 13 Concurrent A**  
**Vascular Biology**  
Grand CDEF  

**Chairs:**  
Patrick J. Pagano, PhD, FAHA, University of Pittsburgh, Pittsburgh, Pennsylvania  
Daniela Carnevale, PhD, FAHA, “Sapienza” University of Rome and IRCCS Neuromed, Italy  

**Oral Abstract Presentations**  
7:30  
**BBSome In Smooth Muscle is Required for the Regulation of Vascular Function**  
John J. Reho, Deng-Fu Guo, Donald Morgan, Kamal Rahmouni, Univ Iowa, Iowa City, IA  

7:45  
**Novel Mechanisms at Immune-vascular Interfaces Regulate Myogenic Tone of Resistance Arteries and Induce Hypertension in Mice**  
Daniela Carnevale, Sapienza University of Rome and IRCCS Neuromed, Pozzilli, Italy; Daniele Iodice, Iolanda Vinciguerra, IRCCS Neuromed, Pozzilli, Italy; Marialuisa Perrotta, Sapienza University of Rome, Pozzilli, Italy; Giuseppe Lembo, Sapienza University of Rome and IRCCS Neuromed, Pozzilli, Italy  

8:00  
**Local Endothelial and Smooth Muscle Genomic Instability Reproduce Specific Features of Cardiovascular Aging**  
Paula Katherine Bautista-Nino, Eliana Portilla-Fernandez, Erasmus MC, Rotterdam, Netherlands; Alexandra Santu, Catherine Shanahan, King’s Coll, London, United Kingdom; Anton Roks, Erasmus MC, Rotterdam, Netherlands  

8:15  
**Mitochondrial Deacetylase Sirt3 in Endothelial and Smooth Muscle Cells Protects from Vascular Dysfunction and Attenuates Hypertension**  
Anna Dikalova, Arvind Pandey, Liang Xiao, Hana Itani, Tatiana Sidorova, Vanderbilt University 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 I. Dikalov, Vanderbilt University Medical Ctr, Nashville, TN
Program Agenda (continued)

8:30 Mitochondrial Fission Mediates Hypertensive Vascular Remodeling and Aneurysm Development
Hannah A. Cooper, Temple Univ, Philadelphia, PA; Tatsuo Kawai, Temple University, Philadelphia, PA; Steven Forrester, Emory Univ, Atlanta, GA; Kathy J Elliott, Temple university, Philadelphia, PA; Kyle Preston, Rosario Scalia, Victor Rizzo, Satoru Eguchi, Temple Univ, Philadelphia, PA

8:45 Renal Hydrogen Peroxide Prevents Salt-Sensitive Hypertension

7:30–9:00 am Session 13 Concurrent B Renal Hemodynamics and Tubular Transport
Columbus EF

Chairs:
Pablo A. Ortiz, PhD, Henry Ford Health System, Detroit, Michigan
Casandra M. Monzon, PhD, Case Western Reserve University, Cleveland, Ohio

Oral Abstract Presentations

7:30 Urinary Mitochondrial DNA Copy Number Identifies Renal Mitochondrial Injury in Renovascular Hypertensive Patients Undergoing Renal Revascularization
Alfonso Eirin, Sandra M. Herrmann, Ahmed Saad, Hui Tang, Amir Lerman, Lilach O. Lerman, MAYO CLINIC, Rochester, MN

7:45 Purinergic P2X1 and P2X7 Receptors Activation Attenuate Angiotensin AT1 Receptors Dominance in Regulating the Preglomerular Renal Microcirculation in Angiotensin II Dependent Hypertension
Supaporn Kulthinee, 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

8:00 Enhanced Glomerular Capillary Pressure and Tubuloglomerular Feedback (tgf) in Obese Alms1 (alstrom Syndrome 1) Knock Out Rats
Sumit R. Monu, Keyona King-Medina, Pablo Ortiz, Henry Ford Health System Detroit, MI

8:15 NO Regulates Trafficking of Claudin-19 in the Thick Ascending Limb Via c-GMP
Casandra M. Monzon, Jeffrey L. Garvin, Case Western Reserve University, Cleveland, OH

8:30 Mechanism of Action of 8-Aminoguanine on Renal Excretory Function
Edwin K. Jackson, Zaichuan Mi, Thomas R. Pittsburgh School Med, Pittsburgh, PA

61 8:45 Kelch-like 3 Dephosphorylation by Calcineurin as a Mechanism Regulating Na-cl Cotransporter
Qin Wang, Ken-ichi Ishizawa, Osamu Yamazaki, Yoshifuru Tamura, Yoshihide Fujigaki, Shunya Uchida, Shigeru Shibata, Teikyo Univ, Tokyo, Japan

7:30–9:00 AM Session 13 Concurrent C Hypertension Clinical-Pathological Conference
Columbus KL

Chairs:
Anna Dominiczak, MD, FAHA, Editor-in-Chief of Hypertension
Garry L. Jennings, MD, FAHA, Associate Editor of Hypertension

7:30 Case I: Case of Paroxysmal Hypertension associated with Presyncope
James Matthew Luther, MD, Vanderbilt University Medical Center
John Oates, MD, Vanderbilt University Medical Center

8:15 Case II: Masked Hypertension Contributing to Severe Hypertensive Heart Disease with Left Ventricular Outflow Tract Obstruction – Not a Benign Phenomenon
Alan C Cameron, BSc (Hons), Institute of Cardiovascular and Medical Sciences, University of Glasgow
Christian Delles, MD, Institute of Cardiovascular and Medical Sciences, University of Glasgow, BHF Glasgow Cardiovascular Research Centre

9:00 The Kidney Potassium Switch and Blood Pressure
Paul A. Welling, MD, FAHA, University of Maryland School of Medicine, Baltimore, Maryland

7:30–9:30 AM Session 13 Concurrent D Primary Care Track: Emerging Issues in Hypertension Management
Grand BD

Chairs:
Michael J. Bloch, MD, FAHA, University of Nevada School of Medicine, Reno, Nevada

7:30 How Do Environmental Factors Effect Blood Pressure?
Robert D. Brook, MD, FAHA, University of Michigan, Ann Arbor, Michigan
Program Agenda (continued)

7:50  Treatment of Hypertension in the Women Considering Conception
Mark Santillan, MD, PhD, FACOG, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa

8:10  Remote Monitoring and Patient Self-Management – Is it the Future of BP Management?
Debbie Cohen, MD, University of Pennsylvania, Philadelphia, Pennsylvania

8:30  Management of Hyper-and-Hypo-Kalemia in Treated Hypertensive Patients
Matthew Weir, MD, University Maryland School of Medicine, Baltimore, Maryland

8:50  Surgical and Percutaneous Interventions in Management of Hypertension
Raymond Townsend, MD, FAHA, University of Pennsylvania, Philadelphia, Pennsylvania

9:10  Q&A
Panelists:
Robert D. Brook, MD, FAHA, University of Michigan, Ann Arbor, Michigan
Mark Santillan, MD, PhD, FACOG, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
Debbie Cohen, MD, University of Pennsylvania, Philadelphia, Pennsylvania
Matthew Weir, MD, University Maryland School of Medicine, Baltimore, Maryland
Raymond Townsend, MD, FAHA, University of Pennsylvania, Philadelphia, Pennsylvania

9:30-10:00 AM
Target: BP Connect LIVE!
Columbus G

A new opportunity to discuss proven ways to improve blood pressure (BP) control for your patients and learn more about implementing the BP improvement program.

9:30–10:00 AM
Refreshment Break and Exhibits
Grand Foyer

10:00-10:30 AM
Session 14
The Harriet Dunstan Award Lecture
Grand CDEF

Chair:
John Hall, PhD, FAHA, University of Mississippi, Jackson, Mississippi

10:00  Low Birth Weight and Hypertension
Barbara T. Alexander, PhD, FAHA, The University of Mississippi Medical Center, Jackson, Mississippi

10:30 AM–Noon
Session 14 Concurrent A
Blood Pressure Monitoring, Control and Adherence to Treatment
Columbus ABCD

Chair:
Henry R. Black, MD, NYU Lagone School of Medicine, New York, New York

Oral Abstract Presentations

10:30  Antihypertensive Medication Treatment Regimens in SPRINT
Jordan B. King, Kaiser Permanente Colorado, Aurora, CO; Andrew Moran, The Columbia Hypertension Ctr, Columbia Univ Medical Ctr, Columbia Univ Medical Ctr, New York, NY; Catherine Derington, Kaiser Permanente Colorado, Aurora, CO; Jennifer Herrick, Dept of Population Health Sciences, Sch of Med, Univ of Utah, Salt Lake City, UT; Ian Kronish, The Columbia Hypertension Ctr, Columbia Univ Medical Ctr, New York, NY; Barry Stults, Dept of Internal Med, Sch of Med, Univ of Utah, Salt Lake City, UT; Daichi Shimbo, The Columbia Hypertension Ctr, Columbia Univ Medical Ctr, New York, NY; Paul Muntner, Dept of Epidemiology, Univ of Alabama at Birmingham, Birmingham, AL; Tom Greene, Dept of Population Health Sciences, Sch of Med, Univ of Utah, Salt Lake City, UT; William Cushman, Preventive Med Section, Veterans Affairs Medical Ctr; Dept of Preventive Med, Univ of Tennessee Health Science Ctr, Memphis, TN; William Weintraub, MedStar Washington Hosp Ctr, Washington, DC; Adam Bress, Dept of Population Health Sciences, Sch of Med, Univ of Utah, Salt Lake City, UT

10:45  Adherence to Antihypertensive Drugs: Insights from the SPYRAL HTN Trials and Implications for Hypertension Trial Design
Michael A. Weber, SUNY Downstate Coll of Med, New York, NY; David Kandzari, Piedmont Heart Inst, Atlanta, GA; Michael Böhm, Felix Mahfoud, Klinik für Innere Med III, Homburg/ Saar, Germany; Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi, Japan; Tony Walton, Ingrid Hopper, The Alfred Hosp, Melbourne, Australia; Manesh Patel, Crystal Tyson, Duke Univ Medical Ctr, Durham, NC; Chandan M. Devireddy, Janice P. Lea, Emory Univ Sch of Med, Atlanta, GA; Joachim Weil, Tölga Agdiriloglu, Sana Cardiomed Heart Ctr, Luebeck, Germany; Markus Meyer, Experimental and Clinical Toxicology, Saarland Univ, Saarland, Germany; Martin Fahy, Medtronic PLC, Santa Rosa, CA; Raymond Townsend, Sch of Med, Univ of Pennsylvania, Philadelphia, PA
Program Agenda (continued)

10:30 AM–Noon
Session 14 Concurrent B
Clinical Trials, Antihypertensive Drugs and Pharmacology

Chairs:
William C. Cushman, MD, FAHA, Veterans Affairs Medical Center, Memphis, Tennessee
Marko Poglitsch, PhD, Attoquant Diagnostics GMBH, Vienna

Oral Abstract Presentations

10:30 Does the Benefit From Treating to Blood Pressure Targets Vary With Age? 75

10:45 All Cause Mortality is Higher for Patients Who Have Bigger Blood Pressure Drops on Antihypertensive Therapy 76
John B. Kostis, Rutgers Robert Wod Johnson Medical Sch, New Brunswick, NJ; Chun Pang Lin, Rutgers Robert Wood Johnson Medical Sch, New Brunswick, NJ; Javier Cabrera, Rutgers Univ, Piscataway, NJ; Daniel Blickstein, Nora M. Cosgrove, William J. Kostis, Rutgers Robert Wood Johnson Medical Sch, New Brunswick, NJ

11:00 Captopril-Induced Sustained Reduction in Blood Pressure is Associated with Alterations in Gut-Brain Axis in the Spontaneously Hypertensive Rats 77
Tao Yang, Victor P Aquino, Gilberto O. Lobaton, Luis Colon-Perez, Jasenka Zubcevic, Marcelo Febo, Elaine M Richards, Carl J. Pepine, Mohan K Raizada, University of Florida, Gainesville, FL

11:15 Chemerin Antisense Oligonucleotide Lowers Blood Pressure in a Rat Model of Adiposity-Associated Hypertension. 78
David Ferland, Emma Darios, Hannah Garver, Michigan State University, East Lansing, MI; Steve Yeh, Adam Mullick, Ionis Pharmaceuticals, Carlsbad, CA; Gregory D. Fink, Stephanie W. Watts, Michigan State University, East Lansing, MI

11:00 Increased Short-Term Blood Pressure Variability in Patients with Isolated Systolic Hypertension
Alejandro De La Sierra, Hospital Mutua Terrassa, Terrassa, Spain; Gianfranco Parati, HOSPITAL San Luca, Milano, Italy; Jose R. Banegas, Juan J. de la Cruz, Univ Autónoma, Madrid, Spain; Manuel Gorostidi, Hosp Central Asturias, Oviedo, Spain; Ernest Vinyoles, CAP la Mina, Barcelona, Spain; Julian Segura, Luis M. Ruilope, Hospital 12 de Octubre, Madrid, Spain

11:15 Return on Investment of Self-Measured Blood Pressure: An Economic Model from the Insurers’ Perspective
Alejandro Arrieta, Florida International University, Miami, FL; John Woods, Indiana University Purdue University, Indianapolis, IN; Gregory Wozniak, Stavros Tsipas, Michael Rakotz, American Medical Association, Chicago, IL; Stephen J. Jay, Indiana University Purdue University, Indianapolis, IN

11:30 Sleep Duration and 24-hour Ambulatory Blood Pressure in Adults not on Antihypertensive Medications
Jordana B. Cohe, Rachel Shulman, Debbie L. Cohen, Univ of Pennsylvania, Philadelphia, PA; Michael A. Grandner, Univ of Arizona, Tucson, AZ; Thorarin Gislason, Univ of Iceland, Reykjavik, Iceland; Allan I. Pack, Samuel T. Kuna, Raymond R. Townsend, Univ of Pennsylvania, Philadelphia, PA

11:45 Non-adherence To Prescribed Blood Pressure Lowering Drugs In Patients With Suspected “Resistant” Hypertension: A Call For Rigorous Adherence Testing
Marcel Ruzicka, Swapnil Hiremath, Ottawa Hosp, Ottawa, ON, Canada; Frans H. Leenen, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

10:30–Noon

SATURDAY
Program Agenda (continued)

11:30 Long-lasting RNAi Therapeutics Targeting Angiotensinogen Induces a Robust and Durable Antihypertensive Effect  
Estrellita Uijl, Erasmus MC, Rotterdam, Netherlands; Katrina M. Mirabito Colafella, Monash Univ, Melbourne, Australia; Richard van Veghel, René de Vries, Ingrid M. Garrelsd, Ewout J. Hoorn, Erasmus MC, Rotterdam, Netherlands; Marko Poglitsch, Alnylam Pharmaceuticals, Cambridge, MA; A. H. Jan Danser, Erasmus MC, Rotterdam, Netherlands

11:45 Characterization of Blood Pressure Response to Spironolactone in Patients With Resistant Hypertension using Electronic Medical Records  
Megan M. Shuey, Hui Nian, Chang Yu, James M. Luther, Nancy J. Brown, Vanderbilt Univ Medical Ctr, Nashville, TN

10:30 AM–Noon  
Session 14 Concurrent C  
Neurogenic Mechanisms I  
Columbus KL

Chairs:  
Gregory D. Fink, PhD, FAHA, Michigan State University, East Lansing, Michigan  
Richard D. Wainford, PhD, FAHA, Boston University Medical Center, Boston, Massachusetts

Oral Abstract Presentations

10:30 Renal Sensory Nerves Increase Blood Pressure and Sympathetic Nerve Activity in 2-Kidney 1-Clip Hypertensive Mice  
Jason Ong, Alan F Sved, Roderick J. Tan, Brittney M. Rush, Marcelo D. Carattino, Sean D. Stocker, University of Pittsburgh, Pittsburgh, PA

10:45 Intrarenal Nacl Boli Cause Longlasting Inhibition of Renal Sympathetic Nerve Activity (RSNA)  
Martin Hindermann, Medical Dept 4 (FAU), Erlangen, Germany; Kristina Rodionova, Medical Dept 4 (FAU &PMU), Erlangen and Nuremberg, Germany; Amerlie Dietz, Medical Dept 4 (FAU), Erlangen, Germany; Tilmann Ditting, Christian Ott, Medical Dept 4 (FAU &PMU), Erlangen and Nuremberg, Germany; Roland Schmieder, Kerstin Amann, Medical Dept 4 (FAU), Erlangen, Germany; Roland Veelken, Medical Dept 4 (FAU &PMU), Erlangen and Nuremberg, Germany

11:00 Role of Alpha2a-adrenoceptors in the Development of Hypertensive Nephropathy  
Johannes Stegbauer, Masudur Rahman, Mina Yakoub, Henning Hoch, Oliver Vonend, Lars C. Rump, Lydia Herling, Heinrich-Heine-Univ, Düsseldorf, Germany

11:15 Selective Renal Afferent Denervation Enhances Diuretic and Natriuretic Response to Glucagon-like Peptide-1 in Rats With Heart Failure  
Kenichi Katsurada, Neeru M. Sharma, UNMC, Omaha, NE; Hong Zheng, Xuefei Liu, USD, Vermillion, SD; Kaushik Patel, UNMC, Omaha, NE

11:30 Renal and Neural Mechanisms of Age-Related Hypertension  
Alissa A. Frame, Richard D. Wainford, Boston Univ, Boston, MA

11:45 Neuroanatomical Basis of PVN MC4R-expressing Neurons for Sympathetic Cardiovascular Control  
Uday Singh, Brandon A. Toth, Kevin C. Davis, Kenji Saito, Donald A. Morgan, Kamal Rahmouni, Huxing Cui, The Univ of Iowa, Iowa City, IA

10:00 AM–Noon  
Session 14 Concurrent D  
Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines Part 3: Special Situations  
Grand BD

Chairs:  
F. Wilford Germino, MD, FACP, Orland Primary Care Specialists, Chicago, Illinois  
Alan Hinderliter, MD University of North Carolina School of Medicine, Chappell Hill, North Carolina

10:00 Determining Adequacy of BP Control: Using Appropriate Technique and Integrating In and Out of Office Measurements  
Daichi Shimbo, MD, Columbia University Medical Center, New York, New York

10:25 Management of Resistant Hypertension: Have We Learned Anything New?  
David A. Calhoun, MD, FAHA, University of Alabama, Birmingham, Alabama

10:45 Implementation of Pediatric Guidelines for Hypertension Management  
Joshua A. Samuels, MD, MPH, FAHA, McGovern Medical School at UT Health, Houston, Texas

11:05 Q&A

11:15 Case 1: Presented by Michael E. Fitzgerald, MD, Dupage Medical Group, Naperville, Illinois

Chair:  
William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington

Panelists:  
Jan Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina  
Louis Kuritzky, MD, University of Florida College of Medicine, Gainesville, Florida  
Matthew Weir, MD, University Maryland School of Medicine, Baltimore, Maryland  
Steven A. Yarows, MD, FAHA, University of Michigan Health System, Chelsea, Michigan

Become an AHA/ASA Professional Member and save on next year’s registration.
Case 2: Presented by William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington

Panelists:
Steven M. Smith, RPH, University of Florida College of Medicine, Gainesville, Florida
Anthony Viera, MD, MPH, FAHA, Duke University Medical School, Durham, North Carolina
David A. Calhoun, MD, FAHA, University of Alabama, Birmingham, Alabama
Mark Santillan, MD, PhD, FACOG, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa

Closing Comments
Jan Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina

Satellite Symposium
Renal Denervation and Blood Pressure Control: A Clinical Trial Update

Chairs:
Jan Basile, MD, FAHA
Michael J. Bloch, MD, FAHA

Faculty:
John W. Osborn, PhD
Raymond R. Townsend, MD, FAHA
Michael A. Weber, MD, FAHA

Sponsored by Cardiovascular Research Foundation. Supported through an educational grants from Medtronic and Rector Medical. Complimentary lunch provided by The American Heart Association to the first 200 attendees.

This event is not part of the official Joint Hypertension 2018 Scientific Sessions as planned by the AHA Planning Committee.

Lunch on Your Own

Poster Session 3
Riverside East

Posters P322-P403 will be presented during this session. See pages 43 for details.
Program Agenda (continued)

3:30–5:30 PM
Session 16 Concurrent A
Salt and Hypertension
Columbus ABCD

Chairs:
Pedro A. Jose, MD, PhD, FAHA, George Washington University School of Medicine, Washington, DC
Meena Madhur, MD, PhD, FAHA, Vanderbilt University School of Medicine, Nashville, Tennessee

Oral Abstract Presentations

3:30 NPFF Receptors NPFF-R1 and NPFF-R2 in the Kidney: A Target for the Negative Control of Sodium Transport and Blood Pressure
Laureano D. Asico, Van Anthony M. Villar, Michael Bishop, Gerald Gomes, Momina Mazhar, Pedro A. Jose, George Washington University, Washington, DC

3:45 The Immune Mechanisms of Salt-Sensitivity
Natalia Ruggeri Barbaro, Justin Van Beusecum, Roxana Lopera, Aseel Alsoquii, Mingfang Ao, Fernando Eljovich, Cheryl L. Laffer, Alp Ikizler, Vanderbilt University, Nashville, TN; Alicia A. McDonough, Keck Sch of Med of USC, Nashville, TN; Heitor Moreno Jr, Unicamp, Campinas, Brazil; David G. Harrison, Annet Kirabo, Vanderbilt University, Nashville, TN

4:00 Deletion of Circadian Clock Associated Gene, Rfwd2, Alters Rhythm in Blood Pressure Timing Without Changes in Salt-sensitivity
Daian Chen, John N. Booth III, Bryan K. Becker, Jackson C Colson, Chunhua Jin, University of Alabama Birmingham, Birmingham, AL; Allen W. Cowley Jr, Aron Geurts, Medical Coll of Wisconsin, Milwaukee, WI; Paul Muntrer, Martin E. Young, David M. Pollock, Jennifer S. Pollock, University of Alabama Birmingham, Birmingham, AL

4:15 Does Dietary Sodium Contribute to the Discordance in Blood Pressures Among Monozygotic Twins?
Vidya Kidambi, Medical College of Wisconsin, Milwaukee, WI; Mary F. Donohue, Michigan State Univ, East Lansing, MI; Yannick Muniyara, Gerard Coly, Purushottam Laud, Medical College of Wisconsin, Milwaukee, WI; Tao Wang, Medical College of Wisconsin, Milwaukee, TN; Rakesh Reddy, Michigan State Univ, East Lansing, WI; S. A. Burts, Kelly E. Klump, Michigan State Univ, East Lansing, MI; Theodore A. Kotchen, Allen W. Cowley, Medical College of Wisconsin, Milwaukee, WI; Supratik Rayamajhi, Michigan State Univ, East Lansing, MI; David L. Mattson, Medical College of Wisconsin, Milwaukee, WI; Ralph E. Watson, Michigan State Univ, East Lansing, MI; Mingyu Liang, Medical College of Wisconsin, Milwaukee, WI

4:30 Knock Out Oof Pappa2 Enhances Blood Pressure Salt-sensitivity and Renal Injury
Allen Cowley, Aron Geurts, Louise Evans, Theresa Kurth, Chun Yang, Nadezda Zheleznova, Clayton Wollner, Vikash Kumar, Medical College of Wisconsin, Milwaukee, WI

4:45 Tissue Sodium is A Highly Sensitive Marker of Subclinical and Localised Edema
Giacomo Rossitto, Mark Petrie, Rhian Touyz, Christian Delles, Univ of Glasgow, Glasgow, United Kingdom

5:00 Salt resistance and renal Gpr83 function
Xiaoxu Zheng, Prasad Konkalmatt, Laureano Asico, Pedro A Jose, Ines Armando, George Washington University, Washington, DC

5:15 Smooth Muscle PPARγ Mutation Causes Impaired Renal Blood Flow and Salt-Sensitive Hypertension
Jing Wu, University Iowa, Coralville, IA; Larry N. Agbor, Masashi Mukohda, Anand R. Nair, Pablo Nakagawa, Donald A. Morgan, Kamal Rahmouni, University Iowa, Iowa City, IA; Katherine H. Gottinger, Michal L. Schwartzman, New York Medical Coll, Valhalla, NY; Curt D. Sigmund, University Iowa, Iowa City, IA

3:30–5:30 pm
Session 16 Concurrent B
Aldosterone, Receptors and Other Hormones
Columbus EF

Chair:
Eric J. Belin De Chantemele, MS, DSc, FAHA, Augusta University, Augusta, Georgia

Oral Abstract Presentations

3:30 Renal Transcriptomic Analysis of Transgenic Mice Containing Human Cyp11b2 Gene
Brahmaraju Mopidevi, Indu Sivankutty, Sravan Perla, Sudhir Jain, Ashok Kumar, New York Medical Coll, Valhlla, NY

3:45 Progesterone Upregulates Endothelial Mineralocorticoid Receptor Expression which Predisposes Female Mice to Obesity-induced Endothelial Dysfunction
Jessica L. Faulkner, Simone Kennard, Galina Antonova, Zsolt Bagi, Augusta University, Augusta, GA; Iris Jaffe, Tufts University, Boston, MA; Vijay S Patel, Eric J. Belin de Chantemèle, Augusta University, Augusta, GA

4:00 Interaction Of miRNA, Endothelial Mineralocorticoid Receptor and Epithelial Sodium Channel in Endothelium Stiffness And Aortic Dysfunction
Guanghong Jia, Habibi Javad, Annayya R. Aroor, Yan Yang, Michael A. Hill, Adam Whaley-
Program Agenda (continued)

Connell, Univ of Missouri Sch of Medicine, Columbia, MO; Frederic Jaisser, Sorbonne Univ, Paris, France; James R. Sowers, Univ of Missouri Sch of Medicine, Columbia, MO

4:15 Aldosterone-producing Cell Clusters in Essential Hypertension
Kei Omata, Ryo Kusaka, Yuto Yamazaki, Sadayoshi Ito, Fumitoshi Satoh, Tohoku Univ, Sendai, Japan; William Rainey, Scott Tomlins, Univ of Michigan, Ann Arbor, MI; Hironobu Sasano, Tohoku Univ, Sendai, Japan

4:30 Carvedilol Selectively Stimulates Beta-arrestin2-dependent Serca2a Activity in Cardiomyocytes to Augment Contractility
Anastasios Lymeropoulos, Barbara M. Parker, Ava Brill, Katie A McCrink, Jennifer Maning, Victoria L Desimine, Shelby L. Wertz, Nova Southeastern Univ, Fort Lauderdale, FL

4:45 Mechanistic Insight into Tannic Acid Mediated Angiotensin Type 1 Receptor and PCSK9 Downregulation
Laxmi Iyer, Yong Zhang, Thomas Thekkumkara, Texas Tech Univ Health Sciences Ctr, Amarillo, TX

5:00 Transforming Growth Factor-Beta-Receptor Antagonist Blocks the Cardiac Fibrosis and Remodeling in Guanylyl Cyclase/Natriuretic Peptide Receptor-A Gene-Disrupted Mice
Umadevi Subramanian, Ramachandran Sanivel, Hanqiang Zhao, Venkateswara Gogulamudi, Kailash Nath Pandey, Tulane Som Physiology, New Orleans, LA

5:15 G-protein Coupled Protein Kinase 4 Variants Differentially Modulate Response of Breast Cancer Cells to Dopamine 1 Receptor Agonist
Wei Yue, Hanh Tran, Jiiping Wang, Katherine A. Schiemeyer, Peng Xu, John J. Gildea, Robin A. Felder, University of Virginia, Charlottesville, VA

3:30 Assessment of Endothelium-dependent and -independent Vasodilation: From Methodology to Clinical Perspectives
Tatsuya Maruhashi, MD, PhD, Hiroshima University

4:00 Primary Aldosteronism: Updates from PA Sendai Study Registry
Ryo Morimoto, MD, Tohoku University Graduate School of Medicine

4:30 The Soluble (Pro)renin Receptor: Its Generation and Function
Tianxin Yang, MD, PhD, FAHA, University of Utah and Sun Yat-sen University

5:00 Developing the Therapeutic Potential of Relaxin as a Treatment for Hypertension and Related Fibrosis
Chrishan Samuel, Senior Research Fellow (NHMRC), Department of Pharmacology, Monash University

3:30-5:30 PM Concurrent Session 16 D
Clinical Practice Clinical Science: AHA Council on Hypertension/ESC Council on Hypertension Joint Session
Grand BD

Chair: Robert M. Carey, MD, MACP, FAHA, FRCPI, University of Virginia School of Medicine, Charlottesville, Virginia

3:30 ESC/ESH Guideline on Hypertension 2018
Bryan Williams, MD, FRCP, FESC, FAHA, University of Leicester

4:00 The Canadian Guideline: Differences and Similarities to the European Guideline
Ernesto Schiffrin, CM, MD, PhD, FRSC, FRCPC, FACP, FAHA, McGill University, Montreal, Canada

4:20 US, European, and Canadian Guidelines: What is the Clinician to Do
Michael A. Weber, MD, FACP, FACC, FAHA, SUNY Downstate College of Medicine, Brooklyn, New York

4:40 Device-based treatment for hypertension- Who? When? How?
Felix Mahfoud, MD, Saarland University Hospital, Homburg, Germany

5:00 Q&A
Panelists: Bryan Williams, MD, FRCP, FESC, FAHA, University of Leicester
Ernesto Schiffrin, CM, MD, PhD, FRSC, FRCPC, FACP, FAHA, McGill University, Montreal, Canada
Michael A. Weber, MD, FACP, FACC, FAHA, SUNY Downstate College of Medicine, Brooklyn, New York

3:30–5:30 PM Session 16 Concurrent C
Asian | Pacific Symposium on Cardiovascular Research
Columbus KL

Chairs:
Sadayoshi Ito, MD, PhD, FAHA, Professor, Division of Nephrology, Endocrinology and Hypertension, Tohoku University Graduate School of Medicine
Kate Denton, PhD, FAHA, Professor and NHMRC Principal Research Fellow, Monash University

In collaboration with Japanese Society of Hypertension, Sun Yat-Sen University Zhongshan Medical School, China and Australian Council for High Blood Pressure Research

Next year’s conference: September 5-8, 2019 … visit professional.heart.org/hypertensionsessions.
5:45–6:30 PM
Session 17
The Excellence in Hypertension Research Award
Grand CDEF

Chairs:
Joey Granger, PhD, FAHA, Chair,
Council on Hypertension
Christopher Wilcox, MD, PhD, FAHA, Georgetown University Medical Center; Washington, DC

5:45  A Study of the Innate Immune Response in Hypertension
R. Clinton Webb, PhD, FAHA, Augusta University/ Medical College of Georgia, Augusta, Georgia

6:05  Clinical Trials and Practice Guidelines: Evidence-Based Progress in Lowering Blood Pressure
Paul K. Whelton, MD, MSc, MBCh, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana

7:00 PM
Social Dinner Tickets Required for Entrance (Cash Bar)
Crystal Ballroom BC

7:30–9:00 PM
Annual Hypertension Scientific Sessions Awards Banquet
Dinner Tickets Required
Crystal Ballroom BC

Join us in celebrating and recognizing all of our awardees, including the recipients of the Excellence for Hypertension Research Award.

SUNDAY, SEPTEMBER 9

6:30 AM
Registration/Information Desk Open, Exhibits and Refreshments
Grand Foyer

7:30–9:00 AM
Session 18 Concurrent A Neurogenic Mechanisms II
Columbus ABCD

Chair:
Jussara M. do Carmo, PhD, University of Mississippi Medical Center, Jackson, Mississippi

Oral Abstract Presentations
7:30  Acute, Dose-Dependent, Blood Pressure-Lowering Effect of Continuous Positive Airway Pressure in Autonomic Failure Patients with Supine Hypertension
Luis E. Okamoto, Jorge E. Celedonio, Andre Diedrich, Cyndya A Shibao, Alfredo Gamboa, Bonnie K Black, Sachin Y. Paranjape, David Robertson, Italo Biaggioni, Vanderbilt University Medical School, Nashville, TN

7:45  DOCA induced Natriorexigenic and Hypertensive Effects are Blunted by Central Infusion of AT1 Receptor biased Agonist TRV120027
Fernando Seara, Pablo Nakagawa, Javier A. Gomez, Guorui Deng, Julien A. Sebag, Univ of Iowa, Iowa city, IA; Sadaaaha S. Karnik, Cleveland Clinic Lerner Res Inst, Cleveland, OH; Justin L. Grobe, Curt D. Sigmund, Univ of Iowa, Iowa city, IA

8:00  PVN Inflammation Contributes to Brain Gpr12 Protein Dependent Sympathetically Mediated Salt Sensitive Hypertension
Richard D Wainford, Jionique George, Boston Univ School Medicine, Boston, MA

8:15  Central Angiotensin II Mediates Neurogenic Hypertension Through Post-Translational Regulation of Neuronal Nitric Oxide Synthase in the Paraventricular Nucleus of the Hypothalamus
Neeru M. Sharma, UNMC, Omaha, NE; Andrea S. Haibara, Univ of Minas Gerais, Belo Horizonte, Brazil; Kenichi Katsurada, Xuefei Liu, Kaushik P. Patel, UNMC, Omaha, NE

8:30  Neurons in the Organum Vasculosum of the Lamina Terminalis Sense NaCl and Angiotensin II to Regulate Sympathetic Nerve Activity and Arterial Blood Pressure
Sean D. Stocker, Brian J. Kinsman, Kirsteen N. Browning, University of Pittsburgh, Pittsburgh, PA; Megan M Wenner, William B. Farquhar, Univ of Delaware, Newark, DE

8:45  Sympathetic Inhibition Prevents the Homing of Specific Memory T Cells to the Bone Marrow and the Development of Repeated Hypertension
Liang Xiao, Luciana S. Carmo, Hana A. Itani, Jason D. Foss, Wei Chen, David G. Harrison, Vanderbilt Univ Medical Ctr, Nashville, TN

7:30–9:00 AM
Concurrent Session 18 B Vascular Stiffness
Columbus EF

Chairs:
Sarah H. Lindsey, PhD, FAHA, Tulane University, New Orleans, Louisiana
Joseph L. Izzo, MD, PhD, FAHA, University of Buffalo, Jacobs School of Medicine and Biomedical Sciences, Buffalo, New York

Oral Abstract Presentations
7:30  Association Between Aortic Stiffness and Lower Retinal Microvascular Blood Flow Revealed by Laser Speckle Flowgraphy: Surrogate Measures of Cerebral Microcirculation In Humans
Seth W. Holwerda, Randy H. Kardon,
7:45  Vascular Smooth Muscle RhoBTB1 Protects from Hypertension and Arterial Stiffness by Cullin-3 Dependent Ubiquitination of Phosphodiesterase 5
Masashi Mukohda, Shi Fang, Jing Wu, Larry N. Agbor, Anand R Nair, Stella-Rita C. Ibeawuchi, Chunyan Hu, Xuebo Liu, Ko-Ting Lu, Deng-Fu Guo, Debbie R. Davis, Henry L. Keen, Frederick W. Quelle, Curt D. Sigmund, University of Iowa, Iowa City, IA

8:00  Endothelial Sodium Channel Activation Promotes Angiotensin II Induced Arterial Stiffness and Endothelial Dysfunction

8:15  Carotid Artery Stiffness Increases the Risk of Incident Depressive Symptoms: The Paris Prospective Study 3
Thomas T. van Sloten, Pierre Boutourlie, Muriel Tafflet, Inserm U970, Paris, France; Frédérique Thomas, Preventive and Clinical Investigation Ctr, Paris, France; Catherine Guibout, Rachel E Cilime, Inserm U970, Paris, France; Cédric Lemogne, AP-HP, Georges Pompidou European Hosp, Dept of Psychiatry, Paris, France; Bruno Pannier, Preventive and Clinical Investigation Ctr, Paris, France; Stéphane Laurent, Xavier Jouven, Jean-Philippe Empana, Inserm U970, Paris, France

8:30  Female Protection from Arterial Stiffness Diminishes with G Protein-Coupled Estrogen Receptor Deletion or Angiotensin II Hypertension
Benard O. Ogola, Caleb M. Abshire, Gabrielle L. Clark, Dylan J. Lawrence, Margaret A. Zimmerman, Carolyn L. Bayer, Kristin S. Miller, Sarah H. Lindsey, Tulane Sch of Med, New Orleans, LA

8:45  Increased Circulating Levels of Mitochondrial N-Formyl Peptides Leads to Vascular Dysfunction and High Blood Pressure in Spontaneously Hypertensive Rats
Camilla F Wenceslau, Cameron G. McCarthy, R. Clinton Webb, Augusta University, Augusta, GA

8:30  Using Blood Pressure Values from Electronic Medical Records to Identify Hypertension During Pregnancy

7:30  Renal-specific Expression of Human Grk4 R65L In Mice Lacking Grk4 Increases Blood Pressure
Selim Rozyyev, Prasad Konkalmatt, Laureano Asico, Megha Kumar, Jessica Hunt, Pedro A Jose, Ines Armando, George Washington University, Washington, DC

7:45  Epigenetic Regulation of Human Angiotensinogen (hAGT) gene by SNPs
Sravan Perla, Brahmaraju Mopidevi, Indu Sivankutty, Sudhir Jain, Kavita Jain, Ashok Kumar, New York Medical Coll, Valhalla, NY

8:00  Inhibition of DNA Methyltransferase Attenuates Salt-Sensitive Hypertension & Renal Disease in Dahl Salt Sensitive Rats
John Henry H. Dasinger, Xiaoqing Pan, Justine M. Abais-Battad, Ammar J. Alsheikh, Hayley Lund, Daniel J Fehrenbach, Pengyuan Liu, Mingyu Liang, David L Mattson, Medical College of Wisconsin, Milwaukee, WI

8:15  DNA de novo (de)Methylation in the Kidney Contributes to Salt-Induced Hypertension
Pengyuan Liu, Sir Run Run Shaw Hosp and Inst of Translational Med, Zhejiang Univ, Hangzhou, Zhejiang, China; Yong Liu, Xiaoping Pan, Medical Coll of Wisconsin, Milwaukee, WI; Yingchuan Li, Intensive Care Unit, Shanghai Jiao Tong Univ Affiliated Sixth Hosp, Shanghai, China; Kristie Usa, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

7:30-9:00 AM Concurrent Session 18 C Epidemiology, Genetics and Epigenetics
Chair: Mingyu Liang, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin

Oral Abstract Presentations

7:30  Renal-specific Expression of Human Grk4 R65L In Mice Lacking Grk4 Increases Blood Pressure
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9:00-9:30 AM
Session 18
The Lewis K. Dahl Memorial Lecture
Grand CDEF

Chair:
Friedrich C Luft, MD, FAHA, Experimental and Clinical Research Center of the Charité Medical Faculty and the Max Delbrück Center for Molecular Medicine, Berlin, Germany

9:00 Your Microbes Care About Your Salt Intake
Dominik N. Müller, PhD, Experimental and Clinical Research Center, Berlin, Germany

8:00-9:20 AM
Concurrent Session 18 D
Clinical Practice Clinical Science Track: Getting It Done: Practical Ways to Improve Blood Pressure Control Part 1
Grand BD

Chairs:
William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington
Keith Ferdinand, MD, FAHA, Tulane University School of Medicine, New Orleans, Louisiana

8:00 Introduction
William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington
Keith Ferdinand, MD, FAHA, Tulane University School of Medicine, New Orleans, Louisiana

8:05 Secrets to Sustain a Low-Sodium DASH Diet In Your Patient
Crystal Tyson, MD, Duke University Medical Center, Durham, North Carolina

8:20 How to Get Your Patients to Exercise
Ross Arena, PhD, PT, FAHA, University of Illinois at Chicago, Chicago, IL

8:35 Practical Pearls in Using Weight-loss Medications in Patients with Hypertension
Robert Kushner, MD, Northwestern University School of Medicine, Chicago, Illinois

8:50 How to Determine and Incorporate CVD Risk to Guide Intensity of Blood Pressure Management
Robert A. Phillips, MD, PhD, FAHA, Houston Methodist, Houston, Texas

9:05 Panel Discussion
Crystal Tyson, MD, Duke University Medical Center, Durham, North Carolina
Ross Arena, PhD, PT, FAHA, FESC, University of Illinois at Chicago, Chicago, IL

10:00-11:30 am
Concurrent Session 19 D
Clinical Practice Clinical Science Track: Getting It Done: Practical Ways to Improve Blood Pressure Control Part 2
Grand BD

Chairs:
William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington
Keith Ferdinand, MD, FAHA, Tulane University School of Medicine, New Orleans, Louisiana

9:40 Getting Ambulatory Blood Pressure Monitoring Reimbursed
Steven A. Yarows, MD, FAHA, University of Michigan Health System, Chelsea, Michigan

9:55 Which Device Should We Use for Office BP Measurement
Martin G. Myers, MD, Sunnybrook Health Sciences Center, Toronto, Canada

10:10 Promoting Accurate Home Blood Pressure Monitoring
Daichi Shimbo, MD, Columbia University Medical Center, New York, New York

10:25 Team-based Approach to Blood Pressure Telemonitoring
Karen Margolis, MD, MPH, University of Minnesota Medical School, Minneapolis, Minnesota

10:40 Q&A

Panelists:
Steven A. Yarows, MD, FAHA, University of Michigan Health System, Chelsea, Michigan
Martin G. Myers, MD, Sunnybrook Health Sciences Center, Toronto, Canada
Daichi Shimbo, MD, Columbia University Medical Center, New York, New York
Karen Margolis, MD, MPH, University of Minnesota Medical School, Minneapolis, Minnesota
Oral Abstract Presentations

10:00  Endothelial Cullin3 Mutation Causes Vascular Dysfunction, Arterial Stiffening and Hypertension
Jing Wu, University Iowa, Coralville, IA; Larry N. Agbor, Shi Fang, Chunyan Hu, Xuebo Liu, Masashi Mukohda, Anand Nair, Curt D. Sigmund, University Iowa, Iowa City, IA

10:15  Deletion of Gstm1 Results in Poor Survival and Exaggerated Kidney Injury Associated with Increased Oxidative Stress and Apoptosis in a Mouse Model of Chronic Kidney Disease
Sylvia Cechova, Gabor Bodonyi-Kovacs, Fang Chan, Univ of Virginia, Charlottesville, VA; Phillip Ruiz, Univ of Miami Sch of Med, Miami, FL; Thu H. Le, Univ of Virginia, Charlottesville, VA

10:30  Effect of Immune Cell-derived Reactive Oxygen Species on Dahl SS Hypertension
Justine M. Abais-Battad, Hayley Lund, John Henry Dasinger, Daniel J. Fehrenbach, David L Mattson, Medical College of Wisconsin, Milwaukee, WI

10:45  NADPH Oxidase 4 and Mitochondrial Abnormalities Contribute to Oxidative Stress and Endothelial Dysfunction in Young Normotensive Patients With Autosomal Dominant Polycystic Kidney Disease
Ali Kakheci, Fouad T. Chebib, Alfonso Eirin, Amir Lerman, Lilach O. Lerman, Peter C. Harris, Vicente E. Torres, Maria V Irazabal, Mayo Clinic, Rochester, MN

11:00  Hyperacetylation of CypD Contributes to Mitochondrial Dysfunction, Vascular Oxidative Stress and Hypertension, and Mitochondria-Targeted Isoketal Scavenger mito2HOBa Prevents CypD Hyperacetylation and Reduces Hypertension
Sergey I Dikalov, Vanderbilt University Medical Ctr, Nashville, TN; Vladimir Mayorov, Mercer Univ Sch of Med, Macon, GA; Arvind Pandey, Vanderbilt University Medical Ctr, Nashville, TN; Alexander Panov, Mercer Univ Sch of Med, Macon, GA; Hana Itani, Venkataraman Amarnath, Raymond Mennaugh, Olivier Boutaud, Sean Davies, John Oates, David G. Harrison, Anna Dikalova, Vanderbilt University Medical Ctr, Nashville, TN

11:15  Nox5 Regulation of Vascular Contraction Involves Oxidation of Endoplasmic Reticulum Calcium Channels and Calcretulin
Augusto C. Montezano, Livia Lucca Camargo, Emma Carrick, Francisco Jose Rios, Laura Haddow, Wendy Beatie, Chet E. Holterman, Christopher Kennedy, Rhian M. Touyz, ICAMS – Univ of Glasgow, Glasgow, United Kingdom

11:30  Adjourn

Next year's conference: September 5-8, 2019 … visit professional.heart.org/hypertensionsessions.
Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Lajos Markó, ECRC, Berlin, Germany; Sascha Höges, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Dmitry Tsvetkov, Sebastian Wundersitz, Nadine Haase, ECRC, Berlin, Germany; Lydia Hering, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Martina Maase, Kristina Kusche-Vihrog, Inst of Physiology II, Univ of Münster, Münster, Germany; Maria Grandoth, Inst of Pharmacology and Clinical Pharmacology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Jens Fielitz, ECRC, Berlin, Germany; Stefan Kempa, MDC Berlin, Berlin, Germany; Sofia K. Forsslund, ECRC, Berlin, Germany; Almagul Kushugulova, Natl Lab Astana Nazarbayev Univ, Astana, Kazakhstan; Kai-Uwe Eckardt, Charité Universitätsmedizin Berlin, Germany; Lars C Rump, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Dominik N Müller, ECRC, Berlin, Germany; Johannes Stegbauer, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany

11:15 Obesity-related Hypertension Develops Through Splenic Sympathetic Overactivity and is Mediated by Immune-modulating Functions of Placental Growth Factor
Daniela Carnevale, Sapienza University/IRCCS Neuromed, Pozzilli, Italy; Andrea Lori, Lorenzo Carnevale, IRCCS Neuromed, Pozzilli, Italy; Maria Luisa Perrotta, Sapienza University of Rome, Pozzilli, Italy; Fabio Pallante, Raimondo Carnevale, Daniele Iodice, IRCCS Neuromed, Pozzilli, Italy; Giuseppe Lembo, Sapienza University of and IRCCS Neuromed, Pozzilli, Italy

10:45 Attenuation of Increased Blood Pressure by Chronic Estrogen Supplementation in Female IUGR Offspring at 12 months of Age is Associated with a Shift Towards ACE2
Gwendolyn K. Davis, Ashley D. Newsome, Norma B. Ojeda, Barbara T. Alexander, University of MS Medical Center, Jackson, MS

10:00 Endothelial-Specific Interference with PPARγ Increases the Susceptibility to Angiotensin II-induced Endothelial Dysfunction in Adult Offspring Born from AVP-infused Pregnancies
Anand R. Nair, Masashi Mukohda, Larry N. Agbor, Ko-Ting Lu, Jing Wu, Jeremy A.
Poster Presentations (continued)

Poster Session Schedule
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Thursday, September 6, 5:30–7:30 PM
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Abstracts P109 – P237
A handout of the Trainee Onsite Poster Competition Judges will be available at Poster Session I

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# Poster Presentations

**Friday, September 7, 1:30-3:00 PM**  
**Poster Session 2**  
**Abstracts P238-P321**

*Note: There are instances where the posters are not in numerical order due to changes requested by the presenter.*

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<td>Hirofumi Tanaka, PhD, The University of Texas at Austin, Austin, Texas</td>
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<td>Ernesto Schiffrin, CM, MD, PhD, FRSC, FRCP, FACP, McGill University, Montreal, Canada</td>
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**Saturday, September 8, 1:30-3:00 PM**  
**Poster Session 3**  
**Abstracts P322-P403**

*Note: There are instances where the posters are not in numerical order due to changes requested by the presenter.*

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<td>Obesity Insulin Resistance and Metabolic Syndrome</td>
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<td>Other</td>
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<td>Karen Griffin, MD, FAHA, Loyola University Medical Center, Chicago, Illinois</td>
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P102 Ablation of MMP-9 and H2S Treatment Mitigates Ocular Hypertension and Retinal Remodeling
Akash K. George, Mahav Singh, Rubens P. Homme, Naira Metrevel, Suresh C. Ryagi, UNIV OF LOUISVILLE MEDICAL SCHOOL, Louisville, KY

P103 Hepatocyte Depolarization Induces a Pressor Response
Yao Xiao, Benjamin J Renquist, UNIVERSITY OF ARIZONA, Tucson, AZ

P104 Urban And Rural Differences In Exposure And Effects Of Micro Air Particles On Blood Pressure Parameters
Benedicta N Nkeh-Chungag, WALTER SISULU UNIVERSITY, Mthatha, South Africa; Anye Chungag, Univ of Fort Hare, Alice, South Africa; Constance R Sewani-Rusike, WALTER SISULU UNIVERSITY, Mthatha, South Africa

P105 An Exploration Of The Relationship Between Endothelial Function, Blood Pressure And Anthropometric Measurements In 6-8 Year Old Rural Versus Urban Children In The Eastern Cape Province Of South Africa
Prescilla B Letwalo, Edna N Matjuda, Constance R Sewani-Rusike, Benedicta N Nkeh-Chungag, WALTER SISULU UNIVERSITY, Mthatha, South Africa

P106 Association Of Pulse Wave Velocity With Hypertension And Anthropometric Measurements In 6-8 Years Old Children In Mthatha, South Africa
Edna N Matjuda, Prescilla B Letwalo, Constance R Sewani-Rusike, Benedicta N Nkeh-Chungag, WALTER SISULU UNIVERSITY, Mthatha, South Africa

P107 Real-World Azilsartan efficacy Assessment Study in Indian Hypertensive patients (RAAS-India)
Uday Jadhav, MGM NEW BOMBAY HOSPITAL, NEW MUMBAI, India; JAMSHED DALAL, KOKILABEN AMBANI HOSPITAL, MUMBAI, India

P108 Characterization of Blood Pressure Response to Spironolactone in Patients with Resistant Hypertension using Electronic Medical Records
Megan M Shuey, Hui Nian, Chang Yu, James M. Luther, Nancy J. Brown, Vanderbilt Univ Medical Ctr, Nashville, TN

P109 Collecting duct Renin and Aldosterone Regulate Potassium Homeostasis
chuanming xu, Univ of Utah, slc, UT; Yanting Chen, Sun Yat-sen Univ, Guangzhou, China; Changhai Zou, Nirupama Ramkumar, Shiying Xie, Fei Wang, Renfei Luo, Univ of Utah, slc, UT

P110 Renal Angiotensin Generation Depends On Haptic Angiotensinogen: Evidence From A Preclinical Study With RNAi Therapeutics Targeting Liver Angiotensinogen
Katrina M Mirabito Colatella, Monash Univ, Melbourne, Australia; Estrellita Ujj, Richard van Veghel, René de Vries, Ingrid M Garrelds, Ewout J Hoorn, Erasmus MC, Rotterdam, Netherlands; Marko Poglitisch, Attoquant Diagnostics, Vienna, Austria; Jae Kim, Don Foster, Aalynam Pharmaceuticals, Cambridge, MA; A.H. Jan Danser, Erasmus MC, Rotterdam, Netherlands

P111 ELABELA Antagonizes Intrarenal Renin to Lower Blood Pressure and Protect against Renal Injury
chuanming xu, Fei Wang, Univ of Utah, slc, UT; Yanting Chen, Sun Yat-sen Univ, Guangzhou, China; Shiying Xie, Renfei Luo, Univ of Utah, slc, UT; Danielle Sng, Bruno Reversade, Inst of Medical Biology, A*STAR, 8A Biomedical Grove, Immunon, Singapore; Tianxin Yang, Univ of Utah, slc, UT

P112 Site-1 protease Regulates Potassium Homeostasis via Intrarenal Renin-Angiotensin-Aldosterone System
Yanting Chen, Sun Yat-sen Univ, Guangzhou, China; Chuanming Xu, Shiying Xie, Fei Wang, Renfei Luo, Tianxin Yang, Univ of Utah, slc, UT

P113 Early Life Stress-induced Increases In Urinary Aldosterone Precedes Renal Dysfunction And Hypertension In Male Mice Fed A High Fat Diet
Jacqueline R Leachman, Carolina Dalmasso, Xi Xu, Jason Backus, Lisa Cassis, Analia S Loria, UNIVERSITY OF KENTUCKY, Lexington, KY

P114 Predominance of formation over degradation as mechanism of Angiotensin-II(1-8) regulation in Aminopeptidase D deficient kidneys
Benedikt Marahrens, Charité Univ Med Berlin, Berlin, Germany; Jan Wysocki, Northwestern Univ / Feinberg Sch of Med, Chicago, IL; Juan-Carlos Velez, Dept of Nephrology, Ochsner Clinic Fndn, New Orleans, LA; Micheal Bader, Max Delbrück Ctr for Molecular Med, Berlin, Germany; Daniel Battle, Northwestern Univ / Feinberg Sch of Med, Chicago, IL

P115 Urinary angiotensinogen is increased in type 1 diabetes with mild albuminuria: Gender differences
Alejandro Sanchez Nadales, Sheeba Habeeb Ba Aqeel, Minghao Ye, Jan Wysocki, Alfred Rademaker, Mark Molitch, Daniel Battle, Northwestern Univ / Feinberg Sch of Med, Chicago, IL

P116 Induction of Human Endothelin-1 Overexpression for 3 Months Increases Plasma Aldosterone
Olga Berillo, Suellen C Coelho, Nada Mahjoub, Nathannne Ferreira, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Stefan Offermanns, Max-Planck-Inst for Heart and Lung Res, Bad Nauheim, Germany; Pierre Paradis, Ernesto L Schiffrin, Lady Davis Inst for Medical Res, Montreal, QC, Canada

P117 Blood Pressure Outcomes In Patients With Primary Aldosteronism After Adrenalectomy Versus Medical Management In Relation To The New 2017 ACC/AHA Blood Pressure Guidelines
Alexa Hammond, Bryan Wu, Hanza Lodhi, Jeomi Maduka, Poghi Peri-okonny, Danielle Tientcheu, Angela Price, Wanpen Vongpatanasin, Univ of Texas Southwestern Medical Ctr, Dallas, TX

P118 Tissue transglutaminase contributes to pro-inflammatory cytokine LIGHT-induced Ang II sensitization
Chen Liu, Renna Luo, Wei Wang, Zhangzhe Peng, Zhen Zhou, Dianna Milewicz, UTHEALTH, Houston, TX; Gail Johnson, Univ of Rochester, Rochester, NY; Rodney Kellens, Yang Xia, UTHEALTH, Houston, TX
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P119 Hypertension And Renal Dysfunction Are Mitigated By Surgical Renal Denervation In An Adult Rat Model Of Polycystic Kidney Disease
Christopher T Banek, Madeline M Gauthier, John W Osborn, Univ of Minnesota, Minneapolis, MN

P120 Mir-338-3p Is Down-regulated In Subcutaneous Small Arteries Of Hypertensive Patients With Chronic Kidney Disease
Nada Mahjoub, Lady Davis institut, montreal, QC, Canada

P121 The Effect of Intensive Blood Pressure Targets on Mortality in Chronic Kidney Disease Patients: An Individual Patient Data Meta-analysis of Randomized Controlled Trials
Rahul Aggarwal, Nicholas Chiu, Benjamin Petrie, Haare Mirzan, Jackson Steinkamp, Boston Univ, Boston, MA

P122 Early Renal Allograft Function and Hypertension after Kidney Transplantation

P123 Plasma Endocan Level As A Predictor Of Cardiovascular Composite Outcomes In Patients With End-stage Renal Disease
Ji Yung Lee, Hyung Seok Ihm, Hyeon Seok Hwang, Kyung Hwan Jeong, Chun Gyoo Ihm, Sang Ho Lee, Tae Won Lee, Yang Gyun Kim, Ju Young Moon, Kyung Hee Univ Sch of Med, Seoul, Korea, Republic of

P124 Renal Ischemia-Reperfusion Injury in Aging and Diabetes
Yoshikazu MUROYA, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Xiaochen He, Univ of Mississippi Medical Ctr., Jackson, MS; Fan Fan, Univ of Mississippi Medical Ctr, Jackson, MS; Takefumi Mori, Osamu Ito, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Richard J Roman, Univ of Mississippi Medical Ctr, Jackson, MS

P125 Role of circulating Endothelial Progenitor Cell Levels Predict Cardiovascular Events in patients on maintenance hemodialysis
Hyung-seok Ihm, Chun-gyoo Ihm, Tae-won Lee, Kyung-hwan Jeong, Hyeon-seok Hwang, Sang-ho Lee, Woo-shik Kim, Ji yung Lee, Kyung Hee Univ Sch of Med, Seoul, Korea, Republic of

P126 Site-1 Protease-Derived Soluble (Pro)Renin Receptor Targets Renal V2 Vasopressin Receptor/ AQP2 to Enhance Urine Concentrating Capability
Fei Wang, UNIVERSITY OF UTAH, Salt Lake Cty, UT; Kexin Peng, Univ of Utah, Salt Lake Cty, UT; Chuanming Xu, Shijing Xie, Renfei Luo, Chang-jiang Zou, Tianxin Yang, UNIVERSITY OF UTAH, Salt Lake Cty, UT

P127 Pericyte Detachment Is Involved In Renal Congestion In A Novel Rat Model
Satoshi Shimada, Tohoku Univ, Sendai, Japan; Takefumi Mori, Osamu Ito, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Emiko Sato, Tohoku Univ, Sendai, Japan; Satoshi Kinugasa, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Sadayoshi Ito, Tohoku Univ, Sendai, Japan; Takefumi Mori, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan

P128 Intensive blood pressure treatment and Renal Outcomes in Diabetic Patients
Ling Wang, Supratik Rayamajhi, Donna Wang, Michigan State Univ, East Lansing, MI

P129 Renal necrotic tissue induces hypertension
Jin Wei, Jie Zhang, Lei Wang, UNIVERSITY OF SOUTH FLORIDA, Tampa, FL; Ruisheng Liu, UNIVERSITY OF SOUTH FLORIDA, tampa, FL

P130 Acute Hyperlipidemia Increases Vasodilation In Conduit Arteries But Has No Effect On Microvascular Recruitment In African American Women
Jorge E Celedonio, Shahram Mehr, JoAnn Gottlieb, Italo Biaggioni, Cyndya Shibao, VANDERBILT UNIVERSITY MEDICALCENTER, Nashville, TN

P131 Transdermal Detection of Low Concentrations of Hydrogen Sulfide
Elani Fourie Wiest, Lynnette Rios, UNIVERSITY OF NEW MEXICO, Albuquerque, NM; Debra Friedrichsen, Grayson Silaski, Exhalix, LLC, Albuquerque, NM; Curtis Mowry, Sandia Nati Labs, Albuquerque, NM; Reza Shekarriz, Exhalix, LLC, Albuquerque, NM; Nancy Kanagy, UNIVERSITY OF NEW MEXICO, Albuquerque, NM

P132 Everolimus, A Targeted Cancer Therapy, Improves Endothelium Dependent Relaxation In Spontaneously Hypertensive Rat Mesenteric Arteries
Patricia Martinez Quinones, Cameron G McCarthy, Camilla F Wenceslau, R Clinton Webb, Augusta Univ, Augusta, GA

P133 Obstructive Sleep Apnea May Exacerbate Carotid Artery Stiffness in Individuals with Chronic Obstructive Pulmonary Disease
Rachel E Luehrs, The Univ of Iowa, Iowa City, IA; Kerrie L Moreau, The Univ of Colorado, Aurora, CO; Mark Aloia, Howard D Weinberger, Barry Make, Russell Bowler, James D Crapo, Frederick Wamboldt, Nati Jewish Health, Denver, CO; Karin F Hoth, Gary L Pierce, The Univ of Iowa, Iowa City, IA

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P134 Sex Differences in the Effects of Chronic Muscadine Grape Extract Treatment on Cardiac Function Parameters and Aortic Pulse Wave Velocity (PWV) in Hypertensive Transgenic (mRen2)27 Rats
Fatima Ryalat, Nildris Cruz-Diaz, Jasmina Varagic, Patricia Gallagher, Ann Tallant, Debra Diz, Liliya Yamaleyeva, Wake Forest Univ, Winston Salem, NC

P135 Bone Mineral Density Is Associated With Vascular Endothelial Function And Arterial Stiffness In Apparently Normal Population From China
huan liu, Peking Univ Shougang Hosp, Beijing, China; Yongqiang Hong, xiuzin hu, Mindong Hosp Affiliated to Fujian Medical Univ, Fujian, China; Hongyu Wang, Jinbo Liu, Hongwei Zhao, Peking Univ Shougang Hosp, Beijing, China

P136 A Case Report Of Aortic Dissection With Higher Level Of Pulse Wave Velocity
Jinbo Liu, Peking Univ Shougang Hosp, Beijing, China; Tianrun Li, Peking Univ Third Hosp, Beijing, China; Huan Liu, Hongwei Zhao, Wei Huang, Lichun Wang, Yuejie Song, Xiaolan Yu, Hongyu Wang, Peking Shougang Hosp, Beijing, China

P137 Arterial Stiffness In Diabetic Patients On Oral Antidiabetic Agents V/s A Combination Of Oral Antidiabetic Agents Plus Insulin
Joaquin Cigarroa, Ignacio DiCicco, Son Pham, Joan Hecht, Robert Chilton, Rene Oliveros, UNIVERSITY OF TEXAS HEALTH SCIENCE, San Antonio, TX

P138 The Arterial Wall Of The Central Vascular Compartment A Novel Target Of Iron-overload Disorders: A Preliminary Study With Experimental Correlation In Animals
Mariano Duarte, Anaquilla Aquieri, Javier Coyle, Claudio Yaryour, Esteban Gonzalez Ballarga, Hosp de Clinicas Facultad de de, Buenos Aires, Argentina; Carlos Reyes Tosso, Catedra de Fisiologia Facultad de Medicina UBA, Buenos Aires, Argentina

P139 Endothelial Bbsome Is Essential For Vascular Endothelial Function
Jingwei Jiang, John J Reho, Donald A Morgan, Kamal Rahmouni, Univ of Iowa Carver Coll of Med, Iowa City, IA

P140 Leptin Supplementation Restores Endothelial Function And Vascular Adrenergic Tone Via Direct Endothelial Mechanisms And Sympato-activation, Respectively, In A Mouse Model Of Congenital Lipodystrophy
Thiago B Bruder-Nascimento, Jessica Faulkner, Simone Kennard, Weliqin Chen, Eric Belin de Chanetele, AUGUSTA UNIVERSITY, Augusta, GA

P141 Aging In Mice Enhances Microvascular Reactive Oxygen Species (ROS) That Impair The Anti-contractile Actions Of Perivascular Adipose Tissue (PVAT)
Tian Li, Christopher S WILCOX, Dan Wang, Georgetown Univ Div of Nephrology, Washington, DC

P142 Aberrant Notch2 Signaling in the Vascular Endothelium Leads to Increased Proliferation and Migration Operant in Pulmonary Arterial Hypertension
Sanghamitra Sahoo, John C Sembrat, Mauricio Rojas, Elena A Goncharova, Patrick J Pagano, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA

P143 Nox1 Elicits Endothelial Cell Proliferation in a CREB- and Rel-1- Dependent Manner
Daniel de Jesus, Yao Li, Evan Devalliance, Patrick Pagano, Univ of Pittsburgh, Pittsburgh, PA

P144 Characterization of Vascular Endothelial and Smooth Muscle Exosomes and Their Role in Vascular SignalTransduction
Michael Boyer, Temple Univ, Philadelphia, PA; Yayo Kimura, Yokohama City Univ, Yokohama, Japan; Satoru Eguchi, Victor Rizzo, Temple Univ, Philadelphia, PA

P145 The Bacterial Metabolite Trimethylamine (TMA), but not Trimethylamine N-oxide (TMAO), Causes Vascular Contraction
Carolina B Restini, Gregory D Fink, Stephanie W Watts, Michigan State Univ - MSU, East Lansing, MI

P146 Cytochrome B5 Reductase (CYB5R3) Function in Smooth Muscle Cells and Blood Pressure Regulation
Brittany G Durgin, Scott A. Hahn, Megan P. Miller, Adam C. Straub, Univ of Pittsburgh, Pittsburgh, PA

P147 Muscarinic Acetylcholine Receptors Are Localized To Primary Endothelial Cilia And Involved In Nitric Oxide Signaling
Hannah C Saternos, Hayley Gibson, Mahmood Meqdad, Wissam A AbouAlaiwi, UNIVERSITY OF TOLEDO, Toledo, OH

P149 VEGF Inhibitor-induced Hypertension And Renal Injury: Prevention By Aspirin?
Katrina M Mirabito Colafella, Monash Univ, Melbourne, Australia; Karla B Neves, Univ of Glasgow, Glasgow, United Kingdom; Augusto C Montezano, University of Glasgow, Glasgow, United Kingdom; Richard van Veghel, Ingrid M Garrelds, Erasmus Medical Ctr, Rotterdam, Netherlands; Hans J Baelde, Leiden Univ Medical Ctr, Leiden, Netherlands; Anton H van den Meiracker, Erasmus Medical Ctr, Rotterdam, Netherlands; Richard van Veghel, Ingrid M Garrelds, Erasmus Medical Ctr, Rotterdam, Netherlands; Jorie Versmissen, Erasmus Medical Ctr, Rotterdam, Netherlands

P150 Chronic Exercise Provides Antihypertensive Effects with Upregulation of Oxidative Stress-Induced Nitric Oxide Upregulation in The Kidney of High-Fructose Fed Rat
Gaizun Hu, Lusi Xu, Masahiro Kohzuki, tohoku university graduate school of medicine, sendai, Japan; Osamu Ito, tohoku medical and pharmaceutical university, sendai, Japan
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P151 Short- and Long-Term Induction of Human Endothelin-1 Overexpression in Mice Up-Regulated the Expression of Khrdbs3 in Mesenteric Arteries
Olga Berillo, Suellen C Coelho, Ku-Geng Hsu, Sofiane Ouerd, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Chantal Richer, Daniel Sinnett, CHU Ste-Justine, Montreal, QC, Canada; Pierre Paradis, Ernesto L Schiffrin, Lady Davis Inst for Medical Res, Montreal, QC, Canada

P152 Exercise Training Upregulates Nrf2 Gene Expression in the RVLM of Mice with Heart failure
Ahmed M Wafai, Lie Gao, Li Yu, Irving H Zucker, Univ of Nebraska Medical Cent, omaha, NE

P153 Crosstalk Between Vascular Redox and Calcium Signalling in Hypertension Involves Transient Receptor Potential Melastatin 2 (TRPM2) Channel
Rhiére Alves-Lopes, Karla B Neves, Akaterini Anagnostopoulou, Univ of Glasgow, Glasgow, United Kingdom; Silvia Lacchini, Univ of Sao Paulo, Sao Paulo, Brazil; Augusto C Montezano, Rhián M Touyz, Univ of Glasgow, Glasgow, United Kingdom

P154 Central acetylcholinesterase inhibitor, galantamine, prevents lipid-induced oxidative stress in African Americans
Jorge E Celedonio, Shahram E Mehr, Sachin Paranjape, Andre Dieicrìch, Italo Biaggioni, Cyndya A Shibao, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN

P155 B Cells Are Not Necessary For The Development Of Ang II-induced Hypertension And End-organ Damage
Yuhan Chen, Vanderbilt Univ Medical Ctr, nashville, TN; Bethany L Dale, Vanderbilt Univ, Nashville, TN; Arvind Kant Pandey, Vanderbilt Univ, Nashville, TN; Matthew R Alexander, Fanny Laroumanie, Meena S Madhur, Vanderbilt Univ Medical Ctr, nashville, TN

P156 Toll-Like Receptor 2 Deficiency Exacerbates Deoxycorticosterone Acetate-Salt-Induced Hypertension
Estrellita Uijl, David Severs, A.H. Jan Danser, Robert Zietse, Ewout J. Hoom, Erasmus MC, Rotterdam, Netherlands

P157 Immunophenotyping Human Hypertension Using Single Cell Mass Cytometry
Matthew R Alexander, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN; Bethany L Dale, Cara E Wogsland, VANDERBILT UNIVERSITY, Nashville, TN; Fernando Elijovich, Jonathan M Irish, Meena S Madhur, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN

P158 Sulforaphane Rich Broccoli Powder Attenuates the Increased Angiotensin II Induced Renal Inflammation and Injury in Gstm1 Deficient Mice
Shirin Pourafshar, Sylvia Cechova, Sun-Sang J Sung, Univ of Virginia, Charlottesville, VA; Phillip Ruiz, Univ of Miami Health System, Miami, FL; Guang Yang, Heinrich-Heine Univ of Dusseldorf, Dusseldorf, Germany; Thu Le, Univ of Virginia, Charlottesville, VA

P159 Neural Inflammation Results in Cardiac Sympathetic Afferent Sensitization in Post-Myocardial Infarction Rats
Juan Hong, UNMC, Omaha, NE

P160 Hypertension Is Associated with Monocytes Activation in the Blood in Mice and Humans
Luciana S Carmo, Liang Xiao, Roxana Loperena, Fernando Elijovich, Natalia Rugeri Barolo, David Harrison, Vanderbilt Univ Medical Ctr, Nashville, TN

P161 Effect of Rapamycin on the Expression of T Regulatory Cells, Foxp3, and Toll-Like Receptors in the Kidneys of Npr1 Gene-Knockout Mice
Venkateswara R Gogulamudi, Indra Mani, Umadevi Subramanian, Kailash Nath Pandey, TULANE SOM PHYSIOLOGY, New Orleans, LA

P162 Adiposity-induced Hypertension is Associated with Sex-specific Macrophage Infiltration of Mesenteric Perivascular Adipose Tissue in Dahl S Rats
Ramya K Kumar, Cheryl E Rockwell, Alexandra E Turley, Hannah Garver, Gregory D Fink, Stephanie W Watts, Michigan State Univ, East Lansing, MI

P164 Inflammatory Cell Populations In A Mouse Model Of Cardiorenal Syndrome
Suang Suang Koid, Intl Univ of Health and Welfare, Tokyo, Japan; Francis H Shand, Satoshi Ueha, Kouji Matsushima, The Univ of Tokyo, Tokyo, Japan; Tatsu Shimosawa, Intl Univ of Health and Welfare, Tokyo, Japan

P165 Genetic Polymorphisms Linked to Diabetes with Chronic Renal Insufficiency
Ling Wang, Donna Wang, Michigan State Univ, East Lansing, MI

P166 Identification of Cyr61 and Tfgbi as Hypertensive Renal LEC Genes
Dakshnapriya Balasubramanian, Catalina A Lopez-Geston, Pauline Igbohose, Micaela Saathoff, Josep M Rutkowski, Brett M Mitchell, Texas A and M Univ, College Station, TX

P167 Altered Gut Microbiome Contributes To Metabolite Biomarkers In Patients With Pulmonary Hypertension
Seungbum Kim, Jacquelyn M Waleiko, UNIVERSITY OF FLORIDA, Gainesville, FL; Katya Rigatto, Univ Federal de Ciências da Saúde de Porto Alegre, Porto Alegre, Brazil; Ray Jordan, Brian Shapiro, Mayo Clinic, Jacksonville, FL; Carl J Pepine, Elaine M Richards, Mohan K Raizada, UNIVERSITY OF FLORIDA, Gainesville, FL

P169 Characterization of the Peak Exercise Blood Pressure Response During Cardiopulmonary Exercise Testing in African American and Caucasian American Men
Ahmad Sabbahi, Ross Arena, Univ of Illinois at Chicago, Chicago, IL; Leonard Kaminsky, Ball State Univ, Muncie, IN; Jonathan Myers, VA Palo Alto Health Care System, Palo Alto, CA; Bo Fernhall, Shane Phillips, Univ of Illinois at Chicago, Chicago, IL
P170 Morning Surge and Cardiovascular Events in African Americans: The Jackson Heart Study
John N Booth, UNIVERSITY OF ALABAMA AT BIRMI, Birmingham, AL; Marwah Abdalla, Columbia Univ, New York, NY; Mario Simms, Univ of Mississippi Medical Ctr, Jackson, MS; Mark Butler, Tanya Spruill, New York Univ, New York, NY; Paul Muntnier, UNIVERSITY OF ALABAMA AT BIRMI, Birmingham, AL; Daichi Shimbo, Columbia Univ, N, NY

P171 Occupational, sport and leisure physical activity have contrasting effects on neural baroreflex sensitivity. The Paris Prospective Study III

P172 A Correlative Study Of Cuff Hypertension And Anthropometric Variables In Obese And Non Obese Subjects
Abhishek Saini, Ajay Krishnamurthy, MVJ Medical college & Res Hosp, Bengaluru, India; Chandrashekar Bohra, Univ of South Florida, Tampa, FL

P173 Sex Differences in The Diurnal Natriuretic Response to Benzamil in Sprague Dawley Rats
Rehah H Soliman, Jermaine G Johnston, Eman Y Gohar, David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL

P174 Loss Of Bmal1 In The Collecting Duct Lowers Blood Pressure In Male, But Not Female, Mice
Dingguo Zhang, Chunhua Jin, Binli Tao, David M. Pollock, Univ of Alabama at Birmingham, Birmingham, AL

P175 Influence of Age and Estradiol on Blood Pressure Responses to Exercise
Megan M Wenner, Univ of Delaware, Newark, DE; Evan L. Matthews, Montclair State Univ, Montclair, NJ; Jasdeep Kaur, Univ of Texas at Arlington, Arlington, TX; Jody L. Greaney, The Pennsylvania State Univ, State College, PA; Paul J. Fadel, Univ of Texas at Arlington, Arlington, TX

P176 Hypertension Is Mediated By An Angiotensin II-dependent Mechanism In Adipocyte Prorenin Receptor KO Female Mice And By The Parasympathetic Nervous System In Adipose Prorenin Receptor KO Male Mice
Eva Gatineau, Ming Gong, Frederique Yiannikouris, Univ of Kentucky, Lexington, KY

P177 The Roles Of Estrogen-related Receptor Alpha In Cardiometabolic Control
Kenji Saito, Yue Deng, Kevin C Davis, Jing Wu, Masashi Mukoda, Curt D Sigmund, Huxing Cui, The Univ of Iowa, Iowa City, IA

P179 Placental Ischemia-induced Hypertension Is Attenuated In Melanocortin-4 Receptor (MC4R)-deficient Pregnant Rats
Frank T Spradley, Joey P Granger, U of Mississippi Medical Ctr, Jackson, MS

P180 Cardiac Small Vessel Imaging by Light Sheet Microscopy and Micro CT – Discovering the Missing Link between Preeclampsia and Higher Risk for Further Cardiovascular Disease
Kristin Kraeker, Nadine Haase, Experimental and Clinical Res Ctr; Max-Delbrück-Ctr for Molecular Med, Berlin Inst of Health; German Ctr for Cardiovascular Res, Berlin, Germany; Florian Herse, Experimental and Clinical Res Ctr; Max-Delbrück-Ctr for Molecular Med; Charité – Unismedizin Berlin; Berlin Inst of Health, Berlin, Germany; Stefan Verlohren, Charité – Unismedizin, Berlin, Germany; Arnd Heuser, Anje Sporbert, Matthias Richter, Max-Delbrueck-Ctr for Molecular Med, Berlin, Germany; Jamal O’Driscoll, Basky Thilaganathan, St George’s Healthcare NHS Trust, London, United Kingdom; Dominik N. Mueller, Experimental and Clinical Res Ctr; Max-Delbrück-Ctr for Molecular Med; Charité – Unismedizin Berlin; Berlin Inst of Health; German Ctr for Cardiovascular Res, Berlin, Germany; Ralf Dechend, Experimental and Clinical Res Ctr; Charité – Unismedizin Berlin; Berlin Inst of Health; Helios Klinikum, Berlin, Germany

P181 Hypertension Treatment Disruption During Pregnancy Among Women With Chronic Hypertension
P190 The Angiotensin AT1A Receptor Couples to the Prorenin Receptor And Its Soluble Form
Adipose-Specific Deletion of Angiopoietin-like 4
Elevated resting heart rate is associated with Reversion Of Severe Cardiac And Renal Periostin Increases Inducible Nitric Oxide Synthase Expression In Right Ventricular Fibroblasts From Pulmonary Arterial Hypertension Rats Keisuke Imoto, Muneyoshi Okada, Hideyuki Yamawaki, Sch of Veterinary Med, Kitasato Univ, Towada, Aomori, Japan
P186 Reversion Of Severe Cardiac And Renal Dysfunction With Surgical Correction Of Atypical Aortic Coarctation In Adult Patient: Case Report Alexandre L Bortolotto, Faculty of Med , São Paulo Univ, São Paulo, Brazil; Rogerio B Filho, Everton L Moreira, Faculty of Med, Sao Paulo Univ, São Paulo, Brazil; Luis A Dallian, Luiz Bortolotto, Heart Inst (InCor), São Paulo, Brazil
P187 Elevated resting heart rate is associated with dyslipidemia in Chinese rural population: The Henan Rural Cohort Study Xia Zhang, Chongjian Wang, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China; Yuqian Li, Sch of Pharmaceutical Science, Zhengzhou Univ, Zhengzhou, China; Songcheng Yu, Xiaotian Liu, Runqi Tu, Haixing Zhang, Kaili Yang, Dou Qiao, Xue Liu, Gongyuan Zhang, Zhenxing Mao, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China
P188 Adipose-Deletion of Angiopoietin-like 4 Protects Against High Fat Diet Induced Dyslipidemia Kathryn M Spliter, Emily M Cushing, Shwetha Shetty, Brandon S Davies, Univ of Iowa, Iowa City, IA
P189 The Prorenin Receptor And Its Soluble From Stimulate Hepatic Triglyceride And Cholesterol Metabolism In Male Mice Eva Gatinneau, Frédérique Yiannikouris, Univ of Kentucky, Lexington, KY
P190 The Angiotensin AT1A Receptor Couples to G-alpha-i inAgouti-Related Peptide-Expressing Neurons to Control Resting Metabolic Rate Guorui Deng, Sarah A Sapouckey, Charles A Warwick, Yuriy M Usachev, Julien A Sebag, Huxing Cui, Justin L Grobe, UNIVERSITY OF IOWA, Iowa City, IA
P191 Sexually Dimorphic Metabolic or Lethal Consequences of Disrupting Angiotensinogen in Agouti Related Peptide-Expressing Cells Sarah A Sapouckey, Guorui Deng, Nicole A Pearson, Justin L Grobe, UNIVERSITY OF IOWA, Iowa City, IA
P192 Trpc6 Deficiency Causes Obesity, Impaired Glucose Tolerance And Leptin Resistance Zhen Wang, Jussara M. do Carmo, Alexandre A. da Silva, Sydney P. Moak, Kandice C. Bailey, John E. Hall, Univ of Mississippi Medical Ctr, Jackson, MS
P193 Angiotensin-(1-7) Acutely Induces Browning of White Adipose Tissue in Mice Amanda J Miller, Melissa White, Sarah S Bingaman, Amy C Arnold, PENNSYLVANIA STATE UNIVERSITY COLLE, Hershey, PA
P194 Body silhouette trajectories across the lifespan and vascular aging: The Paris Prospective Study 3 Thomas van Sloten, Pierre Boutouyrie, Quentin Lisan, Muriel Tafflet, Inserm U970, Paris, France; Frédérique Thomas, Preventive and Clinical Investigation Ctr, Paris, France; Catherine Guibout, Rachel Clmirie, Bruno Pannier, Inserm U970, Paris, France; James Sharman, Menzies Inst for Medical Res, Hobort, Australia; Stéphane Laurent, Xavier Jouven, Jean-Philippe Empana, Inserm U970, Paris, France
P195 Blood Pressure Is Related To Glucose Fluctuation In Longstanding Type 1 Diabetes Anna Shalimova, Beata Graff, Anna Sznyder, Jacek Wolf, Magdalena Blaszkowska, Elzbieta Orlowska-Kunikowska, Bogumil Wolnik, Krzysztof Narkiewicz, Medical Univ of Gdansk, Gdansk, Poland
P196 Fenofibrate Improves Vascular Contractility And Endothelial Function In Diabetic Mice Nan Xu, Qin Wang, Zhejiang Univ, HangZhou, China; Qi J Wang, Affiliated Women's Hosp of Zhejiang Univ, HangZhou, China; Shan Jiang, Su H Zhou, Lianzhao, En Y Lai, Zhejiang Univ, HangZhou, China
P197 Vacular-type H++-ATPase Enhances Renal (Pro) renin Expression And Inflammation In Response To High Glucose Safia Akhtar, Rebecca Mc Devitt, Silas A Culver, Caixia Li, Helmy M Siragy, Dept of Endocrinology, Sch of Med, Univ of Virginia, Charlottesville, VA
P198 WNK-SPAK-NKCC1 Cascade Activation Contributes to Worsened Brain Damage in Mice with Hypertension Co-morbidity after Ischemic Stroke Mohammad Iqbal H Bhuian, Huachen Huang, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Ting Zhang, Xiamen Univ, Xiamen, Fujian, China; Bradley J Molyneaux, Samuel M Poloyac, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Jinwei Zhang, Univ of Exeter Medical Sch, Exeter, United Kingdom; Xianming Deng, Xiamen Univ, Xiamen, Fujian, China; Dandan Sun, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Dandan Sun, Veterans Affairs Pittsburgh Health Care System, Pittsburgh, PA
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P199  The associations between blood pressure parameters and stroke in Chinese rural population: The Henan Rural Cohort Study
Xia Zhang, Xiaotian Liu, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China; Yuqian Li, Sch of Pharmaceutical Science, Zhengzhou Univ, Zhengzhou, China; Xinyu Zhao, The First Affiliated Hosp, Zhengzhou Univ, Zhengzhou, China; Min Liu, Henan Provincial People's Hosp, Zhengzhou, China; Runci Tu, Xinling Qian, Haiqing Zhang, Wen Zhou, Zhongyan Tian, Dou Qiao, Linlin Li, Zhenxing Mao, Gongyuan Zhang, Wang Chongjian, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China

P200  Night sleep duration and hypertension in Chinese rural population: the Henan Rural Cohort Study
Haiqing Zhang, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China; Yuqian Li, Sch of Pharmaceutical Science, Zhengzhou Univ, Zhengzhou, China; Zhenxing Mao, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China; Min Liu, Henan Provincial People's Hosp, Zhengzhou, China; Wenchuan Xi, Ruihua Liu, Xiaotian Liu, Runci Tu, Kai Li, Xinling Qian, Jingjing Jiang, Xia Zhang, Zhongyan Tian, Ronghai Bie, Chongjian Wang, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China

P201  Exposure to Stress and Low Salt Diet Increases Blood Pressure in Mice Lacking the Brain-specific Renin Isoform Renin-b
Pablo Nakagawa, Javier A Gomez, Fernando De Azevedo Cruz Seara, Curt D Sigmund, Univ of Iowa, Iowa City, IA

P202  Targeting the Cardiac Sympathetic Afferent Reflex in Hypertrophic Cardiomyopathy
Robert A Larson, Yongjuan Lu, Christopher J Benson, Mark W Chapleau, Univ of Iowa, Iowa City, IA

P203  Cumulative Incidence of Orthostatic Intolerance After Bariatric Surgery
James B Zhang, Robyn A Tamboli, Vance L Albaugh, Donna M Kilkelly, Carlos G Grijalva, David B Williams, Cyndya A Shibao, Vanderbilt Univ Medical Ctr, Nashville, TN

P204  Induction of Endoplasmic Reticulum Stress Upregulates Renin Expression in Immortalized Mouse Hypothalamic N43/5 Cells
Javier A. Gomez, Pablo Nakagawa, Curt D. Sigmund, Univ of Iowa, Iowa City, IA

P205  Age-dependent Alteration in Expression of Brain-derived Neurotrophic Factor and Its Receptors in Central Nervous System of Spontaneously Hypertensive Rats
Kosuke Otani, Muneyoshi Okada, Hideyuki Yamawaki, Sch of Veterinary Med, Kitasato Univ, Towada, Aomori, Japan

P206  Interarm Difference In Blood Pressure: Prevalence, Risk Factors, and Relevance for Diagnosis of Disease of the Aorta Among Patients Referred to Specialized Regional Hypertension Center
Januvi Jegatheeswaran, Swapnil Hiremath, Cedric Edwards, Marcel Ruzicka, Ottawa Hosp, Ottawa, ON, Canada

P207  Unattended Automated Office Blood Pressure compared to Loaned Self-Blood Pressure Measurement in Hypertensive Patients
Jose Rafael Vega Ramirez, César González Calvo Vargas, Hosp Civil de Guadalajara, Guadalajara, Mexico

P208  Association of Baseline Medication Burden with Blood Pressure Control, Patient-Reported Outcomes, and Serious Adverse Events: Findings from the SPRINT Trial
Catherine G Derington, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Dept of Clinical Pharmacy, Aurora, CO; Tyler H Gums, Univ of Texas at Austin, Div of Health Outcomes and Pharmacy Practice, Austin, TX; Adam P Bress, Univ of Utah, Dept of Population Health Sciences, Sch of Med, Salt Lake City, UT; Jennifer S Herrick, Univ of Utah, Salt Lake City, UT; Tom H Greene, Univ of Utah, Div of Biostatistics, Salt Lake City, UT; Andrew E Moran, Ian M Kronish, The Columbia Hypertension Ctr, Columbia Univ Medical Ctr, New York, NY; Donald E Morisky, Univ of California Los Angeles, Fielding Sch of Public Health, Los Angeles, CA; Katy E Trinkley, Joseph J Saseen, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Dept of Clinical Pharmacy, Aurora, CO; Kristi Reynolds, Kaiser Permanente Southern California, Res and Evaluation, Pasadena, CA; Jordan B King, Kaiser Permanente Colorado, Dept of Pharmacy, Aurora, CO

P209  Antihypertensive Medication Non-Adherence is Common in Patients with Suspected Refractory Hypertension
Mohammed Siddiqui, Eric K Judd, Tanja Dudenbostel, Univ of Alabama at Birmingham, Birmingham, AL; Pankaj Gupta, Univ of Leicester, Leicester, United Kingdom; Maciej Tomaszewski, Univ of Manchester, Manchester, United Kingdom; Prashanth Patel, Univ of Leicester, Leicester, United Kingdom; Suzanne Opal, David A Calhoun, Univ of Alabama at Birmingham, Birmingham, AL

P210  Blood pressure medication adherence among Medicare beneficiaries, causes and consequences
William Aitken, Lara Bakhos, Loyola Univ Chicago, Maywood, IL

P211  Increased Salt Intake Decreases Postprandial Energy Expenditure in Healthy Volunteers - a Randomized Clinical Study
Anja Mähler, Nicola Wilck, Charité Uniklinik Berlin, Berlin, Germany; Samuel Klamer, DZHK (German Ctr for Cardiovascular Res), partner site Berlin, Berlin, Germany; Andreas Balogh, Lars Klug, Michael Boschmann, Charité Uniklinik Berlin, Berlin, Germany; Dominik N Müller, Max Delbruck Ctr for Molecular Med, Berlin, Germany

P212  Splanchnic And Hepatic Portal Hemodynamics In The Hypotensive Actions Of 5-HT Bridge
Mahon Seitz, Gregory D Fink, Stephanie W Watts, Michigan State Univ, East Lansing, MI
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P213 Angiotensin Converting Enzyme Inhibitors (ACE) Increase Antiﬁbrict Biomarkers in African American Patients with Hypertension and Left Ventricular Hypertrophy
Cesar A Romero, HENRY FORD HEALTH SYSTEM, Detroit, MI; Brian Reed, Shobi Mathew, Aaron Brodi, Rachel Dawood, Michael Twiner, Dept of Emergency Med and Integrative Biosciences Ctr, Wayne State Univ, Detroit, MI; Candance McNaughton, Dept of Emergency Med, Vanderbilt Univ, Nashville, TN; John M Flack, Dept of Internal Med, Southern Illinois Univ, Springfield, IL; Oscar A Carretero, HENRY FORD HEALTH SYSTEM, Detroit, MI; Phillip D Levy, Dept of Emergency Med and Integrative Biosciences Ctr, Wayne State Univ, Detroit, MI

P214 Serum Glucocorticoid Kinase 1 and Sympathetic Nerve Activity in Salt-Sensitive Hypertension
Justin P Van Beuseum, Natalia R Barbaro, Liang Xiao, Arvind K Pandey, David G Harrison, Annet Kirabo, Vanderbilt Univ Medical Ctr, Nashville, TN

P215 Role of Nox4 - H2O2 production in activation of mTORC1 in salt-induced hypertension and kidney injury in Dahl S rats
Vikash Kumar, Theresa Kurth, Allen Cowley, MEDICAL COLLEGE WISCONSIN, Milwaukee, WI

P216 The Circadian Clock Protein BMAL1 in the Kidney Contributes to Blood Pressure Control in Male Mice Gene

P217 Evidence for Impaired Diurnal Cardio-Vagal Tone Due to p67phox in Dahl Salt-Sensitive Rats
Bryan K Becker, Daian Chen, Jackson C Colson, Chunhua Jin, Univ of Alabama at Birmingham, Birmingham, AL; Allen W Cowley Jr., Aron Geurts, Medical Coll of Wisconsin, Milwaukee, WI; Martin E Young, Jennifer S Pollock, David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL

P218 Downregulation Of Renal Tumor Necrosis Factor-alpha Production In Response To Hypotonic Stress Facilitates Adaptive Increases In Renal Cortical Angiotensinogen And Nkcc2b
Shoujin Hao, Joseph Salzo, Mary Hao, Nicholas R. Ferreri, NEW YORK MEDICAL COLLEGE, Valhalla, NY

P219 Site-1 Protease-Derived Soluble (Pro)Renin Receptor Contributes to Salt-Sensitive Hypertension via Activation of the Intrarenal RAS
Fei Wang, Kexin Peng, Shiyi Xie, Kevin Yang, Renfei Luo, Tianxin Yang, UNIVERSITY OF UTAH, Salt Lake Cty, UT

P220 High Salt Intake Induces Catabolism Accompanied By Hepatic Urea Osmylate Production And Decreases Renal Sympathetic Nerve Activity
Norihiko Morisawa, Div of Nephrology & Hypertension, Dept of Internal Med, Jikei Univ Sch of Med, Tokyo, Japan; Kento Kitada, Cardiovascular and Metabolic Disorders, Duke-NUS Medical Sch, Singapore, Singapore; Daisuke Yamazaki, Daisuke Nakano, Dept of Pharmacology, Faculty of Med, Kagawa Univ, Kagawa, Japan; Yoshhide Fujisawa, Life Science Res Ctr, Kagawa Univ, Kagawa, Japan; Jens Titze, Cardiovascular and Metabolic Disorders, Duke-NUS Medical Sch, Singapore, Singapore; Akira Nishiyama, Dept of Pharmacology, Faculty of Med, Kagawa Univ, Kagawa, Japan

P221 The mechanism of Salt-sensitive Hypertension in Intermittent Hypoxia
Alimila Yeeerbolati, Sayoko Ogura, Univ of Tokyo, Faculty of Med, Tokyo, Japan; Tatsuo Shimosawa, Intl Univ of Health and Welfare, Sch of Med Mita Hosp, IUHW Dept. of Clinical Lab, Tokyo, Japan; Hideyuki Maeda, The Medical Univ of Tokyo, Tokyo, Japan

P222 Oxidative Stress Causes Salt Sensitive Hypertension Via Activation Of Naa+-Cl− Cotransporter (ncc)
Conghui Wang, Tatsuo Shimosawa, Rehman Latapati, SuangSuang Koid, Intl Univ of Health and Welfare, Narita, Japan; Yeeerbolati Alimila, BeiBei Liu, The Univ of Tokyo, Tokyo, Japan; Sayoko Ogura, Nihon Univ, Tokyo, Japan; Fumiko Mori, Mitsui Memorial Hosp, Tokyo, Japan; Toshiro Fujita, The Univ of Tokyo, Tokyo, Japan

P223 Identification of Chromosome 2 Differentially Expressed Genes Linked to Vascular Inflammation Using Congenic Rats Fed a Normal and 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 Kwitek, Univ of Iowa, Iowa, IA; Pierre Paradis, Ernesto L Schiffirn, Lady Davis Inst for Medical Res, Montreal, QC, Canada

P224 Urinary Excretion of Sodium, Potassium, Calcium and Magnesium and Blood Pressure Among a Population of ≥ 20-year-olds: Evidence From Southwest Coastal Bangladesh
Abu Mohd Naser Titu, Dept of Environmental Health Sciences, Rolls Sch of Public Health, Emory Univ, Atlanta, GA; Mahbubur Rahman, Leanne Unicomb, Solaiman Doza, Intl Ctr for Diarrhoeal Disease Res, Bangladesh (icddr,b), Dhaka, Bangladesh; Kazi Matin Uddin Ahmed, Dept of Geology, Univ of Dhaka, Dhaka, Bangladesh; Shahjada Selim, Dept of Endocrinology, Bangabandhu Sheikh Mujib Medical Univ, Dhaka, Bangladesh; Shuchin Anand, Div of Nephrology, Stanford Sch of Med, Stanford Univ, Stanford, CA; Howard Chang, Dept of Biostatistics and Bioinformatics, Rolls Sch of Public Health, Emory Univ, Atlanta, GA; Stephen Luby, Woods Inst for the Environment, Stanford Univ, Stanford, California, Stanford, CA; Thomas Clasen, Matthew Gribole, Dept of Environmental Health Sciences, Rolls Sch of Public Health, Emory Univ, Atlanta, GA; KM Venkat Narayan, Emory Global Diabetes Res Ctr, Hubert Dept of Global Health, Rolls Sch of Public Health, Emory Univ, Atlanta, GA
P225 **Associations Between Sleep, Physical Activity and Blood Pressure Among Black Women: Baseline Results from the SisterTalk At Home Intervention for Weight Loss**
Augustine W. Kang, Patricia M. Risica, Brown Univ, Providence, RI

P226 **Reducing Sympathetic Activity And Cardiac Preload Have Differential Effects On Mean And Pulsatile Blood Pressure Components**
Luca Faconti, Bushra Farukh, Phil Chowienczyk, King's Coll London, London, United Kingdom

P227 **The Feasibility of Interventions to Increase Potassium Intake for Hypertension: A Systematic Review of the Evidence Maryam Basim Zaree, Marcel Ruzicka, Rana Hassan, Swapnil Hiremath, Ottawa Hosp, Ottawa, ON, Canada**

P228 **Text-Facilitated Home Blood Pressure Monitoring: A Qualitative Analysis of Health Behavior Change**
Matthew Allen, Taya Irazary, Julian Einhorn, Brian Suffoletto, Thomas Kamarck, Lora Burke, Bruce Rollman, Matthew F Muldoon, UNIV OF PITTSBURGH, Pittsburgh, PA

P229 **Effect of Management of Hypertensive Susceptible Population: a case-control study in Shanghai, China**
Liang Tongtong, Xu Dongli, Zhang Jinling, Minhang District Ctr for Disease Control and Prevention, Shanghai, China

P230 **Food Insecurity is Associated with Hypertension in Children and Adolescents Independent of Obesity**
Andrew Michael South, Deepak Patalkshappa, Callie Brown, WAKE FOREST SCHOOL OF MEDICINE, Winston Salem, NC

P231 **Circulatory Gene Regulation in Youth with Primary Hypertension and Target Organ Damage**
Fnu Mohammed Arif, Univ of Cincinnati, Cincinnati, OH; Elaine Urbina, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH; Sakthivel Sadayappan, Richard Becker, Univ of Cincinnati, Cincinnati, OH

P232 **Hemodynamic Phenotype And Target Organ Damage In Adolescents With Spurious Hypertension**
Lukasz Obyrcyki, Dept of Nephrology, Kidney Transplantations and Hypertension, Children's Memorial Health Inst, Warsaw, Poland; Janusz Feber, Div of Nephrology, Dept of Pediatrics, Children's Hosp of Eastern Ontario, Univ of Ottawa, Ottawa, ON, Canada; Anna Niemirska, Mieczyslaw Litwin, Dept of Nephrology, Kidney Transplantations and Hypertension, Children's Memorial Health Inst, Warsaw, Poland

P233 **Blood Pressure Variability And Rhythmicity In Adolescents With Spurious Hypertension**
Lukasz Obyrcyki, Dept of Nephrology, Kidney Transplantations and Hypertension, Children's Memorial Health Inst, Warsaw, Poland; Janusz Feber, Div of Nephrology, Dept of Pediatrics, Children's Hosp of Eastern Ontario, Univ of Ottawa, Ottawa, ON, Canada; Anna Niemirska, Mieczyslaw Litwin, Dept of Nephrology, Kidney Transplantations and Hypertension, Children's Memorial Health Inst, Warsaw, Poland

P234 **Obstructive Sleep Apnea is more common in Patients with Masked Uncontrolled Hypertension**
Mohammed Siddiqi, Stephen J Thomas, Eric J Judd, Tanja Dudenkoetel, Susan Harding, Suzanne Oparil, David A Calhoun, Univ of Alabama at Birmingham, Birmingham, AL

P235 **Altered Brain-gut-lung Axis In Hypoxia-induced Pulmonary Hypertension**
Aline C Oliveira, Ravindra K. Sharma, Tao Yang, Victor Aquino, Gilberto O. Lobaton, Andrew J. Bryant, Elaine M. Richards, Mohan K. Raizada, Univ of Florida, Gainesville, FL

P236 **Sodium Accumulates in the Skin of Patients and Mice with Psoriasis**
Lajos Markó, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Johannes Wild, Ctr for Cardiology-Cardiology I, Univ Medical Ctr Mainz, Mainz, Germany; Natalia Rakova, EXPERIMENTAL CLINICAL RSRCH CTR, Berlin, Germany; András Balogh, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Elisa Opitz, EXPERIMENTAL CLINICAL RSRCH CTR, Berlin, Germany; Peter Linz, Inst of Radiology, Friedrich-Alexander-Univ Erlangen-Nürnberg, Erlangen, Germany; Anna Biurov, EXPERIMENTAL CLINICAL RSRCH CTR, Berlin, Germany; Nicola Wick, Ralf Dechend, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Jens Titze, Duke-Natl Univ of Singapore, Singapore; Dept of Nephrology and Hypertension&Friedrich-Alexander-Univ Erlangen-Nürnberg, Erlangen, Germany; Markus Kleinewietfeld, VIB Lab of Translational Immunomodulation, VIB Ctr for Inflammation Res ( IRC), Hasselt Univ, Diepenbeek, Belgium; Andreas Krause, Andreas Krause, Immanuel Krankenhaus Berlin, Medical Centre for, Germany; Georgios Kokolakis, Sandra Philipp, Dept of Dermatology, Venerology and Allergology, Charité Medical Faculty, Berlin, Germany; Friedrich C Luft, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH), Berlin, Germany; Michael Boschmann, EXPERIMENTAL CLINICAL RSRCH CTR&Berlin Inst of Health (BIH), Berlin, Germany; Marcus Kelm, Titus Kühne, Inst for Cardiovascular Computer-assisted Med&German Heart Ctr Berlin, Berlin, Germany; Susanne Karbach, Ctr for Cardiology-Cardiology I, Univ Medical Ctr Mainz, Mainz, Germany; Dominik N Müller, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Max Delbruck Ctr for Molecular Med, Berlin, Germany

P237 **Elucidation Of Blood Pressure Control Function Of Essential Hypertension Candidate Gene Lpin1**
Cerebral Ischemia with Amyloid-beta Infusion Deteriorates Cognitive Decline – Possible Amelioration of Cognitive Function by AT2 Receptor Activation –
Li-Juan Min, Masaki Mogi, Hui-Yu Bai, Bao-Shuai Shan, Akinori Higaki, Jun Iwanami, Masatsugu Horuchi, EHI ME UNIVERSITY SCHOOL OF MEDICINE, Tohon, Ehime, Japan

Toll-Like Receptors 9 (TLR9) Play a Key Role in Cardiac and Vascular Dysfunction Associated with 2-Kydney 1-Clip (2K1C) Hypertension in Mice
Fernanda Luciano Rodrigues, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil; Ana Carolina Mieko Omoto, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil; Rafael Menezes da Costa, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil; Carlos Alberto Aguiar da Silva, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil; Gisele Facholi Bomfim, Federal Univ of Mato Grosso, Sinop, Brazil; Fernando Silva Carneiro, Rita C. Tostes, Rubens Fazan Junior, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil; Helio C Salgado, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil

Identifying the Angiotensin AT2-Receptor Coupled Phosphoproteome in Human Aortic Endothelial Cells by Time-Resolved, Quantitative Phosphoproteomics
Augusto B Peluso, Stefan J Kempf, Univ of Southern Denmark, Odense C, Denmark; Thiago Verano Brega, Federal Univ of Minas Gerais Brazil, Belo Horizonte, Brazil; Michael Bader, Max Delbrück Ctr for Molecular Med, Berlin-Buch, Germany; Martin R Larsen, Univ of Southern Denmark, Odense C, Denmark; Robson A Santos, Federal Univ of Minas Gerais Brazil, Belo Horizonte, Brazil; Ulrike Muscha Steckelings, Univ of Southern Denmark, Odense C, Denmark

Involvement of Mitochondrial Telomerase Reverse Transcriptase in the restoration of Nitric Oxide Levels by Angiotensin-(1-7) in the Dysfunctional Diabetic CD34+ Cells
Shrinidh Joshi, NDSU, Fargo, ND; Sam Gomez, Wendy Cantu, Julio Quiroz, Museum District Eye Clinic, Houston, TX; Andreas Beyer, Medical Coll Wisconsin, Milwaukee, WI; Charles A Garcia, Museum District Eye Clinic, Houston, TX; Yagna P Jarajapu, NDSU, Fargo, ND

Effects Of Proton Receptor Gpr4 Deficiency On Angiotensin Receptors In Kidney And Hindbrain
Snezana Petrovic, Ellen Tommasi, Xuming Sun, Debra I Diz, WAKE FOREST SCHOOL OF MEDICINE, Winston-Salem, NC

Vascular Drp1 Mediates Angiotensin II-induced Cardiovascular Hypertrophy via global as well as selective de novo protein synthesis
Tatsuo Kawai, Hannah A Cooper, TEMPLE UNIV SCHOOL OF MEDICINE, Philadelphia, PA; Steven J Forrester, Emory Univ, Atlanta, GA; Michael J Boyer, Kathy J Elliott, Kyle Preston, TEMPLE UNIV SCHOOL OF MEDICINE, Philadelphia, PA; Yayoi Kimura, Yokohama City Univ, Yokohama, Japan; Hiromi Sesaki, Johns Hopkins Univ Sch of Med, Baltimore, MD; Rosario Scalia, Victor Rizzo, Satoru Eguchi, TEMPLE UNIV SCHOOL OF MEDICINE, Philadelphia, PA

Hypoxic Stimulation of Vasoreparative Functions in Human CD34+ cells is Mediated by Angiotensin Converting Enzyme-2 and Mas Receptor
Shrinidh Joshi, Estelle Leclerc, Yagna P Jarajapu, NDSU, Fargo, ND

The Angiotensin-(1-7) Agonist AVE0991 Attenuates Angiotensinogen Release from Human Proximal Epithelial Cells
Mark C Chappell, WAKE FOREST SCHOOL OF MEDICINE, Winston-Salem, NC

Increased Urinary Prorenin and sPRR Excretion in Early Type 1 diabetes
Nirupama Ramkumar, Deborah Stuart, Donald E Kohan, UNIVERSITY OF UTAH, Salt Lake Cty, UT

ACE2/ACE Imbalance in the Placental Circulation in an Ovine Model of Intrauterine Growth Restriction
Shrinidh Joshi, Caleb O Lemley, Kimberly A Vonnahme, Yagna P Jarajapu, NDSU, Fargo, ND

Overexpression of An Intracellular Angiotensin II Fusion Protein Selectively in The Mitochondria of Mouse Proximal Tubule Cells Induces Mitochondrial Stress and Glycolytic Responses: Roles of Nitric Oxide and Superoxide
Xiao C Li, UNIV MISSISSIPPI MEDICAL CTR, Jackson, MS; Julia L Cook, Ochsner Clinic Fndn, New Orleans, LA; Jia L Zhuo, UNIV MISSISSIPPI MEDICAL CTR, Jackson, MS

(Pro)renin Receptor Promotes Colorectal Cancer through the Wnt/Beta-Catenin Signaling Pathway despite Constitutive Pathway Component Mutations
Akira Nishiyama, Yuki Shibayama, Juan Wang, KAGAWA UNIV MED SCHOOL, Kagawa, Japan

Unveiling Binding Pocket Structure Of Mas Receptor And Its Interaction With Angiotensin-(1-7)
Maïa E. Bragina, EPFL STI IBI-STI LHTC, Lausanne, Switzerland; Nuria Cirauqui, EPFL STI IBI-STI LHTC, Lausanne, Switzerland; Matteo Dal Peraro, EPFL SV IBII EPFL SV IBII UPDALPE, Lausanne, Switzerland; Robson A Santos, Federal Univ of Minas Gerais Brazil, Belo Horizonte, Brazil; Rodrigo A. Fraga-Silva, Nikos Stergiopoulos, EPFL STI IBI-STI LHTC, Lausanne, Switzerland
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P251 Angiotensin Based Biomarkers for Molecular Profiling and Drug Efficacy Monitoring in Hypertension
Marko Poglitsch, Attoquant Diagnostics, Vienna, Austria; Ashraf H Ahmed, Endocrine Hypertension Ctr, Univ of Queensland, Sch of Med, Princess Alexandra Hosp, Brisbane, Australia; Andrea Stoller, Univ Hosp Basel, Clinical Pharmacology and Toxicology, Basel, Switzerland; Oliver Domenig, Attoquant Diagnostics, Vienna, Austria; Manuel Haschke, Univ Hosp Basel, Clinical Pharmacology and Toxicology, Basel, Switzerland; Michael Stowasser, Endocrine Hypertension Ctr, Univ of Queensland, Sch of Med, Princess Alexandra Hosp, Brisbane, Australia

P252 Angiotensin II Type 1 Receptor Autoantibody Inhibited Bk Channels In Vascular Smooth Muscle Cells
Xiaochen Yin, Suli Zhang, Meili Wang, Yue Qu, Huiyong Liu, Capital Medical Univ, Beijing, China

P253 Forty-two Year Followup in a Patient with Conn's Syndrome
Clarence Ezra Grim, High Blood Pressure Consulting, Stateline, NV

P254 Synergistic Effect of Angiotensin II and Amyloid-beta on Brain Vascular Smooth Muscle Cell Senescence
Li-Juan Min, Hui-Yu Bai, Bao-shuai Shan, Harumi Kan-no, Akinori Higaki, Masaki Mogi, Jun Iwanami, Masatsugu Horiuchi, EHI ME UNIVERSITY SCHOOL OF MEDICINE, Tohon, Ehime, Japan

P255 Differential Regulation of Blood Pressure and Renal Injury by HDAC Inhibitor Mocetinostat in Npr1 Gene-targeted Male and Female Mutant Mice
Prenna Kumar, Meaghan Bloodworth, Christian Nguyen, Venkateswara R. Gogulamudi, Kailash N. Pandey, Physiology, Tulane Univ Health Sciences Ctr and Sch of Med, New Orleans, LA

P256 Development of an Automated High Throughput Screen for GRK4 as Potential Novel Therapeutics for Treatment of Hypertension and/or Salt Sensitivity
Michael G Daley, John J Gildea, Peng Xu, Katie A Schiemeyer, Wei Yue, Stephen G Marshall, Pedro A Jose, Robin A Felder, Univ of Virginia, Charlottesville, VA

P257 Angiotensin II Type 1 Receptor Autoantibodies Decrease Angiotensin II Type 1 Receptor Internalization Through Attenuating The Recruitment Of β-arrestin1/2
Jingwei Bian, Suli Zhang, Jinghui Lei, Xiaochen Yin, Pengli Wang, Huiyong Liu, Capital Medical Univ, Beijing, China

P258 What Clinic Blood Pressure Best Protects Renal Function In Children With Chronic Kidney Disease?
Joseph T Flynn, SEATTLE CHILDRENS HOSPITAL, Seattle, WA; Megan Carroll, Derek Ng, Johns Hopkins Sch of Public Health, Baltimore, MD; Brad Warady, Children's Mercy Hosp, Kansas City, MO; Susan Furth, Children's Hosp of Philadelphia, Philadelphia, PA

P259 Significance Of Hyperuricaemia Treatment In The Treatment Of Hypertensive Patients - Comparison Of Renal Protective Effects Between Topiroxostat And Febuxostat, New Xanthine Oxidase Inhibitors
Fumitoshi Satoh, Yuta Tezuka, Kei Omata, Div of Clinical Hypertension, Endocrinology and Metabolism, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Yoshikiyo Ono, Ryo Morimoto, Masatka Kudo, Sadayoshi Ito, Tohoku Univ Hosp, Sendai, Japan

P260 Utilizing Real-World Big Data in the Search for New Renoprotective Drugs
Yuya Horinouchi, Yasumasa Ikeda, Keijo Fukushima, Masaki Imanishi, Hirofumi Hamano, Yuki Izawa-Ishizawa, Yoshiito Zamami, Hiromichi Fujino, Keisuke Ishizawa, Koichiro Tsuchiya, Toshiaki Tamaki, Inst of Biomedical Sciences, Tokushima Univ Graduate Sch, Tokushima, Japan

P261 GPER is Required for Age-dependent Albuminuria and Glomerulosclerosis: Evidence for its Role in Podocyte Injury and Mesangial Nox1 Regulation
Matthias R Meyer, Univ of New Mexico, Albuquerque, NM; Christoph Daniel, Friedrich-Alexander-Universitat Erlangen-Nurnberg, Erlangen, Germany; Christine D. Woods, Geetanjali Sharma, Natalie C. Fredette, Univ of New Mexico, Albuquerque, NM; Kerstin Amann, Friedrich-Alexander-Universitat Erlangen-Nurnberg, Erlangen, Germany; Matthias Barton, Univ of Zurich, Zurich, Switzerland; Eric R Prossnitz, Univ of New Mexico, Albuquerque, NM

P262 Repression of Genes Involved in Fatty Acid Metabolism during Acute Renal Failure
Mohd Shahid, Lina Kishta, Dana Mdanat, Chicago State Univ, Chicago, IL; Zivar Yousefipour, Coll of Pharmacy and Health Sciences, Texas Southern Univ, Houston, TX; Mohammed Newaz, Chicago State Univ, Chicago, IL

P263 Renal Proximal Tubule Cells from Inverse Salt Sensitive Individuals Have Lower Basal But Higher Sodium Stimulated ENaC Compared To Salt Resistant Individuals
Peng Xu, John J. Gildea, Wei Yue, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Pedro A Jose, George Washington Univ, Washington, DC; Robin A Felder, UNIVERSITY OF VIRGINIA, Charlottesville, VA

P264 Ghrelin-Induced Sodium Reabsorption is Mediated by PKA and a Microtubulin-Dependent Network In Rats
Brandon A. Kemp, Nancy L. Howell, Shetal H. Padia, Univ of Virginia, Charlottesville, VA
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<td>Early Renal Hyperfiltration In Obese Dahl Salt-sensitive Leptin Receptor Mutant Rats Is Associated With Glomerular Leukocyte Extravasation And Renal Disease</td>
<td>Jan M Williams, Kasi C McPherson, Corbin A Shields, Bibek Poudel, Denise C Cornelius, Michael R Garrett, UNIVERSITY OF MISSISSIPPI MEDI, Jackson, MS</td>
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<td>Zia Shariat-Madar, Nicholas Boullard, Cody Cissom, UNIVERSITY OF MISSISSIPPI, University, MS</td>
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<td>Uta Erbruegger, Miranda Good, Luca Musante, Sabrina LaSalvia, Nancy Howell, Robert M Carey, Brant Isakson, Thu H Le, UNIVERSITY OF VIRGINIA HEALTH SYSTEM, Charlottesville, VA</td>
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<td>Ricardo Cabrera-Sole, Caridad Turpin, Lucas Sánchez如果不是Ricardo Cabrera-Sole, Caridad Turpin, Lucas Sánchez, RICARDO CABRERA-SOLE, CARIDAD TURPIN, URRREGO RIVERA, ERIK STEPHAN LUEKPE, MANUEL AGUILERA SALDANA, UNIVERSITY GENERAL HOSPITAL, ALBACETE, SPAIN</td>
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Gregory D Fink, Hannah Garver, MICHIGAN STATE UNIVERSITY, East Lansing, MI

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Ying Jiang, women's hospital, school of medicine, zhejiang university, Hangzhou, China; Yi-Chen Yu, Dept of General Surgery, Sir Run Run Shaw Hospital, Sch of Med, Zhejiang Univ, Hangzhou, China; Qiong Luo, Women's hospital, Sch of Med, Zhejiang Univ, Hangzhou, China

P311 Static Urine Osmolality with Elevated First Trimester Urine Copeptin in Human Preeclampsia
Donna A Santillan, Sabrina M Scroggins, Alyssa T Ray, Shao Y Zhang, Curt D Sigmund, Gary L Pierce, Justin L Grobe, Mark K Santillan, UNIVERSITY IOWA CARVER COLL MED, Iowa City, IA

P312 The Impact Of Arterial Hypertension In Maternal And Perinatal Outcomes In Pregnancies With Takayasu Arteritis
Luiz Bortolotto, Heart Inst (InCor), Sao Paulo, Brazil; Maria R Bortolotto, Rodrigo R Codarin, Tiago J Gomes, Carolina B Testa, Rossana P Francisco, Marcelo Zugaib, Departament of Obstetrics, Hosp das Clinicas da FMUSP, Sao Paulo, Brazil

P313 Isolated Central Hypertension And Features Of The Pregnancy Courseisolated Central Hypertension And Features Of The Pregnancy Course
Maria Evseyeva, Sergeeva Oksana, Evgeniy Shchetinin, Victoria Frantseva, Tatiana Bondar, Stavropol State Medical Univ, Stavropol, Russian Federation

P314 Regulatory Dendritic Cell Treatment Prevents the Development of Vasopressin-induced Preeclampsia
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Lorena M Amaral, Mark W. Cunningham Jr., Venkata Rukmini Varma, Linda M. Bengtson, University of Iowa, Iowa City, IA

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P317 Nocturnal Blood Pressure Variability is associated with hs-CRP in Hypertensive Patients
Badhma Valayapatni, Mohammed Siddiqui, Maria El Hachem, Eric Judd, Tanja Dudenbostel, Suzanne Oparil, David A Calhoun, Univ of Alabama at Birmingham, Birmingham, AL

P318 Cardiac and Vascular Changes in Patients with Morbid Obesity at 12 Months After Bariatric Surgery
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P319 Effects On Cardiac Output, Arterial Stiffness And Blood Pressure Of Sacubitril + Valsartan In Hypertensive Patients With Heart Failure Whose Previously Received Ace Inhibitors Or Arb + Diuretics. Prospective Study And Follow-up To 24 Weeks
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P320 Influence of Diabetes Mellitus on the Prevalence of Atrial Fibrillation in Patients with Diastolic Dysfunction in a Large Community Practice in Greenville, South Carolina
Naveen Raj Saxena, Vinita Srivastava, Peace Medical Ctr, Greenville, SC; Juhi Saxena, Anju Saxena, Furman Univ, Greenville, SC

P321 Substance P is Associated with Hypertension-induced Cardiac Fibrosis
Alexander Widiapradja, Christine Yu, Katharine Kott, Gemma A Figtree, Scott P Levick, Kolling Inst of Medical Res, St Leonards, Australia

P322 Different Responses To Intrarenomedullary Infusion of Anandamides. PF-3845 Reveal Additional Mechanisms Of Pressure-lowering And Diuresis-stimulation By Renomedullary FAAH Inhibition
Ashfaq Ahmad, Sara K Dempsey, Zdravka Daneva, Ningjun Li, Pin-Lan Li, Joseph K Ritter, Virginia Commonwealth Univ, Richmond, VA

P323 TMEM16A and TMEM16B Contribute to Mice Cholecystokinin Response in Sex-specific Manner
Runping Wang, Michael Z Cicha, Mark W Chapleau, Francois M Abboud, THE UNIVERSITY OF IOWA, Iowa City, IA

P324 Role of GABAergic Neurons in the Dipsogenic and Metabolic Responses to Brain Angiotensin
Lisa L Morselli, Guorui Deng, Nicole A Pearson, Justin L Grobe, UNIVERSITY OF IOWA, Iowa City, IA

P325 High-fat Feeding does not Alter the Sparse Sympathetic Nerve Density in Mesenteric Resistance Artery Perivascular Adipose Tissue in Male Sprague-Dawley Rats
William F. Jackson, Gregory D. Fink, Stephanie W. Watts, MICHIGAN STATE UNIV, East Lansing, MI

P326 Enhancement Of Endogenous Epoxyeicosanoids Acids Production Ameliorates Heart Function Via Increased Pgc1 mitochondrial Functions In Metabolic Syndrome
Jian A Cao, Chinese PLA General Hosp, Beijing, China

P327 Real-Time Analysis of Blood Glucose Dynamics by a Glucose Telemetry System in Canagliflozin-treated Diabetic Mice
Ryousuke Satou, T Cooper Woods, Kayoko Miyata, Akemi Katsurada, Courtney M Dugas, Natasha C Klingenberg, L. Gabriel Navar, Dept of Physiology and Hypertension and Renal Ctr of Excellence, Tulane Univ Sch of Med, New Orleans, LA
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**P328** Effect of Sitagliptin on the Hemodynamic and Metabolic Response to a Mixed Meal in Individuals with Type 2 Diabetes and Hypertension
Jessica R Wilson, Univ of Pennsylvania, Philadelphia, PA; Scott J Kerman, Hui Nian, Scott Hubers, Nancy J Brown, Vanderbilt Univ, Nashville, TN

**P329** Ankle Brachial Index Profile in a Diabetic Population with High Risk of Cardiovascular Disease
Bernardo Pires de Freitas, FTESM, Rio de Janeiro, Brazil; Beatriz Gielmo Saraiva, Laura Martins Peçanha, Andressa Regina da Fonseca Wolff, UNESA, Rio de Janeiro, Brazil; Bruno Vasconcelos Coimbra, FTESM, Rio de Janeiro, Brazil; Fernando Ribas Brustolin, Nicole Ceccon de Castro, Odara da Costa, Renan Alves Garcia, Maria Clara Dal Paí, UNESA, Rio de Janeiro, Brazil; Caroline Campos Garcia, FTESM, Rio de Janeiro, Brazil; Lilian Soares da Costa, FTESM and UNESA, Rio de Janeiro, Brazil

**P330** Alterations in Maternal Heart during Diabetic Rat Pregnancy

**P331** Transition From Pre-Diabetes To Diabetes Is Associated With Worsening Of Cardiac Autonomic Neuropathy: Reversal By Anti-Diabetic Drugs
Nour Bakkar, Nahed Mougharbil, Souha Fares, Fouad A Zouein, Ahmed F El-Yamzi, AUBMC, Beirut, Lebanon

**P332** Hesperidin In Citrus Fruit Juice Plays A Role In Preventing Cognitive Impairment Induced By Ischemic Brain Damage
Moe Kawakami, Jun Iwanami, Kana Tsukuda, Akinori Higaki, Li-Juan Min, Masaki Mogi, Masatsugu Horiuchi, Ehime Univ, Graduate Sch of Med, Tohon, Ehime, Japan

**P333** Effect of Autonomous Cortisol Secretion on Cerebrovascular Events in Patients with Primary Aldosteronism
Masataka Kudo, Tohoku Univ Hosp, Div of Nephrology, Endocrinology and Vascular Med, Sendai, Japan; Chunji Migukura, Tohoku Univ Hosp, Dept of Diagnostic Radiology, Sendai, Japan; Ryo Morimoto, Tohoku Univ Hosp, Div of Nephrology, Endocrinology and Vascular Med., Sendai, Japan; Yuta Tezuka, Kei Omata, Beata Shiratori, Yasuhiro Igarashi, Tohoku Univ Hosp, Div of Nephrology, Endocrinology and Vascular Med, Sendai, Japan; Kazunasee Seji, Tohoku Univ Hosp, Dept of Diagnostic Radiology, Sendai, Japan; Kei Takase, Tohoku Univ Hosp, Dept of Diagnostic Radiology, Sendai, Japan; Sadayoshi Ito, Tohoku Univ Hosp, Div of Nephrology, Endocrinology and Vascular Med, Sendai, Japan; Fumitoshi Satoh, Tohoku Univ Hosp, Div of Clinical Hypertension, Endocrinology & Metabolism, Sendai, Japan

**P334** Demographic, Risk Factors and Knowledge Profile of the Participants from a Vascular Disease Prevention Campaign - Red September

**P335** Effect of Aerobic Walking Exercise on Cardiovascular Health in Non-Ambulatory Stroke Survivors, a Pilot Study
Abdul fattah S Alqahtani, Ramzi A Alajam, Sarah Eickmeyer, Wen Liu, Univ of Kansas Medical Ctr, Kansas City, KS

**P336** Efficacy And Safety Of Vasodilator Beta-blocker In Elderly Hypertensive Patients: Result From BEFIT-KOERA Study
Eun Joo Cho, Catholic Univ of Korea, Seoul, Korea, Republic of; Geu-Ru Hong, Yonsei Univ Severance hospital, Seoul, Korea, Republic of; YoungYoup Koh, Chosun Univ, Gwangju, Korea, Republic of; Dong Woon Jeon, Nat’l Health Insurance Service Ilsan Hosp, Ilsan, Korea, Republic of; In Hyun Jung, Inje Univ, Sangguye Paik Hosp, Seoul, Korea, Republic of; Min Yong Kang, Hallym Univ Kangnam Sacred Heart hospital, Seoul, Korea, Republic of; Young Mo Yang, Cheonjng St. Mary’s Hosp, Cheongju, Korea, Republic of; Sangwon Park, A.Menarini Korea Ltd., Seoul, Korea, Republic of; Jae Hyung Kim, Catholic Univ of Korea, Seoul, Korea, Republic of

**P337** Src Signaling and Toll-like Receptor 4 (TLR4) are Involved in Ouabain-induced Endothelial Cell Inflammation
Yemin Zhang, Cameron McCarthy, Fabiano Beraldino Calmasini, Camilla Ferreira Wenceslau, Safia Ogbi, Patricia Martinez Quinones, R. Clinton Webb, Dept of Physiology, Medical Coll of Georgia, Augusta Univ, Augusta, GA
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P338 Aging and Inhibition of Nox1/4 Modulate Perivascular Inflammation in Spontaneous Hypertension
Ryszard Nosalski, Tomasz Mikolajczyk, Univ of Glasgow, Glasgow, United Kingdom; Mateusz Siedlinski, Joanna Maciag, Jagiellonian Univ Collegium Medicum, Krakow, Poland; Tomasz Guzik, Univ of Glasgow, Glasgow, United Kingdom

P340 Variable Pressor And Sympathetic Responsiveness Reflects Neurotransmitter Imbalance In The Paraventricular Nucleus That Is Prevented By Loss Of Renal Sensory Nerves
Mark M Knuepfer, St. Louis Univ Sch of Med, Saint Louis, MO; Hong Zheng, Xuefai Liu, Basic Biomedical Sciences, Vermillion, SD; Neeru M. Sharma, Kaushik P. Patel, Univ of Nebraska Medical Ctr, Omaha, NE

P341 Melanocortin Receptor 4 Activation Mediates Leptin-induced Sensitization Of The Angiotensin II-elicted Hypertensive Response In Mice
Baqijan Xue, Terry G. Beltz, Fang Guo, Alan Kim Johnson, UNIVERSITY IOWA, IOWA, Iowa City, IA

P342 Management of Coexistent Neurogenic Orthostatic Hypotension and Supine Hypertension: A Case Study
David S Cannom, Good Samaritan Hosp, Los Angeles, CA

P343 Utility of Autonomic Testing for the Diagnosis of Neurogenic Orthostatic Hypotension and Subsequent Management With Droxidopa
Sami B Alam, Waiel Almardini, Amer Suleman, The Heartbeat Clinic, McKinney, TX

P344 Vascular Purinergic Neurotransmission is Not Altered in High Fat-Fed Dahl S Hypertension
Sutheera Sangsiri, Faculty of Med, Thammasat Univ, Pathumthani, Thailand; James J. Galligan, Neuroscience Program, Michigan State Univ, East-Lansing, MI

P345 The Cost-Effectiveness of Home BP Telemonitoring in Patients with a Cerebrovascular Event
Sami B Alam, Waiel Almardini, Amer Suleman, The Heartbeat Clinic, McKinney, TX

P346 Impact of the Changing Guidelines in the Classification of Patients: Insights from a Real Life mHealth Digital Registry
Gaia Del Mauro, Tommaso Bordignon, Martina Fabi, Eros Colombo, AMICOMED INC, SAN FRANCISCO, CA; Domenico Cianflone, UNIVERSITA VITA-SALUITE SAN RAFFAELE, MILANO, Italy

P347 How Did Another 30% Of Americans Develop High Blood Pressure Overnight? An Analysis Of The New AHA/ACC Blood Pressure Guidelines And Their Impact In Communities Across The Country
Ross Goglia, Higi, Chicago, IL; Khan Siddiqui, Johns Hopkins Univ Sch of Med; Higi, Chicago, IL; Daniel Neems, Higi, Chicago, IL

P348 Evaluation of Check. Change. Control. in the Asian American & Pacific Islander community
Cevadne Lee, Sang-Mi Oh, American Heart Association, Los Angeles, CA

P349 Establishing Correction Factors for Oscar and SpaceLabs 90207 Oscillometric Ambulatory Blood Pressure Monitors
Vincent Patteson Lombardi, Patrick C Reichhold, Nicholas R. Dietz, Natalie J. DeBell, Donald L. Pate, Univ of Oregon, Eugene, OR

P350 Early Signs Of Stress Induced Arterial Hypertension During Cardiopulmonary Testing And Advantages In Cardiac Risk Lowering
Elena A Kolesnikova, Gregory P Arutyunov, Anna Rylova, Pirogov Russian Nati Res Med Univ, Moscow, Russian Federation

P351 Improving the Management of Hypertension for Adults: The Impact of Home Blood Pressure Monitoring and Lessons Learned from a System-Level Hypertension Control Initiative
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Cardiovascular disease afflicts people of all races, ethnicities, genders, religions, ages, sexual orientations, national origins and abilities. The American Heart Association is committed to ensuring that our work force and volunteers reflect the world’s diverse population. We know that such diversity will enrich us with the talent, energy, perspective and inspiration we need to achieve our mission: building healthier lives, free of cardiovascular diseases and stroke.

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