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.

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

Hypertension 2016
Scientific Sessions

Final Program
September 14–17, 2016 | The Dolphin Hotel | Orlando, FL

Sponsored by the Council on Hypertension and the Council on Kidney in Cardiovascular Disease.
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<thead>
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<th>Time</th>
<th>Wednesday, September 14</th>
<th>Thursday, September 15</th>
<th>Friday, September 16</th>
<th>Saturday, September 17</th>
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<tr>
<td>8:00 am</td>
<td>Opening Remarks and Keynote Lecture</td>
<td>Oral Session 1</td>
<td>Oral Session 13</td>
<td>Oral Session 17</td>
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<td>8:30 am</td>
<td>Hypertension Research</td>
<td>Concurrent A</td>
<td>Donald Selkoe Award Lecture</td>
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<td>9:00 am</td>
<td>Oral Session 2</td>
<td>Inflammation and Immunity</td>
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<td>Obesity, Diabetes and Cardiovascular Disease</td>
<td>Concurrent B</td>
<td>Vascular Biology and Dysfunction</td>
<td>Renal Hemodynamic and Tubular Functions</td>
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<td>Clinical Symposium: Is Office Blood Pressure the Optimal Guide to Diagnosis and Treatment of the Disease Called Hypertension?</td>
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<td>Concurrent B</td>
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<td>Lunch</td>
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Letter From the Chair

September 14, 2016

Dear Colleagues,

On behalf of the Council on Hypertension and the Council on the Kidney in Cardiovascular Disease of the American Heart Association, it is my pleasure to welcome you to the 2016 Council on Hypertension Scientific Sessions. This conference, focusing on recent advances in basic and clinical research on hypertension, is considered the premier scientific meeting on the subject in the world. The science submitted to this conference continues to bring 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 for detecting, evaluating and treating high blood pressure across diverse populations.

We are pleased to have our opening keynote lecture presented by William Cushman, MD, University of Tennessee College of Medicine, presenting: “The SPRINT TRIAL: Does Intensive Management of High Blood Pressure Further Reduce Rates of Cardiovascular Disease and Lower Risk of Death?” The opening lecture will be followed by a full-day session on “Recent Advances in Hypertension,” sponsored and chaired by the editors of the Hypertension journal. We have approximately 430 abstracts being presented at our 3-½ day meeting. The expansion of concurrent sessions has allowed a 30 percent increase in the total numbers of abstract-driven oral presentations. We also have an increase in the number of clinical symposia and a hypertension case presentation session, also sponsored by our Hypertension journal. We have a significant increase in the number of travel awards with the addition of two awards categories: The AFHRE Travel Award for Patient-Oriented or Clinical Research in Hypertension and the IASH/COH New Investigator Travel Award for Central and South American Trainees.

We hope that you take full advantage of all the excellent programming throughout the conference and enjoy your time here in Orlando, Florida. We strive to create an atmosphere of enrichment for conference attendees. 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,

Joey P. Granger, PhD
Chair, Council on Hypertension Program Committee
Billy S. Guyton Distinguished Professor
Dean, School of Graduate Studies in the Health Sciences
Professor of Physiology and Medicine
Director, Cardiovascular Renal Research Center
University of Mississippi Medical Center
Become an AHA/ASA Professional Member and save up to $300 off next year’s registration.
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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 grateful to the members of the Council on Hypertension Program Committee for their dedication and leadership in planning the program.

Council on Hypertension 2016 Scientific Sessions Program Committee

Joey Granger, PhD, FAHA, Chair, Hypertension Program Committee, University of Mississippi Medical Center, Jackson, Mississippi
David Ellison, MD, FAHA, Vice Chair, Hypertension Program Committee, Oregon Health & Science University, Portland, Oregon
Daniel Battle, MD, FAHA, Northwestern University, Feinberg School of Medicine, Chicago, Illinois
Ana Briones, PhD, Universidad Autónoma de Madrid, Madrid, Spain
Satoru Eguchi, MD, PhD, FAHA, Temple University School of Medicine, Philadelphia, Pennsylvania
Jeffrey L. Garvin, PhD, Case Western Reserve, Cleveland, Ohio
R. Ariel Gomez, MD, University of Virginia School of Medicine, Charlottesville, Virginia
Bina Joe, MD, University Toledo, Toledo, Ohio
Donald E. Kohan, MD, PhD, University of Utah Health Sciences Center, Salt Lake City, Utah
Lilach O. Lerman, MD, PhD, FAHA, Mayo Clinic Rochester, Minnesota
Moshe Levi, MD, Chair, Kidney Council, University of Colorado Denver, Aurora, Colorado
Augusto Montezano, MD, Institute of Cardiovascular and Medical Sciences, Glasgow, Scotland
Dominik Mueller, PhD, Max-Delbruck Center and Clinical Experimental Research Center, Berlin, Germany
Ravi Nistala, MD, University of Missouri-Columbia, Columbia, Missouri
Pablo Ortiz, PhD, Henry Ford Hospital, Detroit, Michigan
Patrick Osei-Owusu, PhD, Drexel University, Philadelphia, Pennsylvania
Patrick Pagano, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania
Jennifer Pollock, PhD, University of Alabama Birmingham, Birmingham, Alabama
Colin Summers, PhD, University of Florida, Gainesville, Florida
Robert Unwin, PhD, UCL Medical School, London, United Kingdom
Hanjun Wang, MD, University of Nebraska Medical Center, Omaha, Nebraska
Stephanie, Watts, PhD, Michigan State University, East Lansing, Michigan

The American Heart Association’s Council on Hypertension gratefully acknowledges Hypertension for its financial support.
Abstract Graders

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

Barbara Alexander  Diane Handy  Jennifer Pollock
William Arendshorst  Pamela Harding  Ambra Pozzi
Michael Bader  Stephen Harrap  J. Howard Pratt
Paula Barrett  Raymond Harris  Morton Printz
Daniel Battle  Lisa Harrison-Bernard  Kamal Rahmouni
Kathleen Berecek  Yoshitaka Hirooka  Mohan Raizada
Anil Bidani  John Imig  Richard Re
Henry Black  Bina Joe  Jane Reckelhoff
Ana Briones  Raouf Khalil  Richard Roman
K. Bridget Brosnihan  Donald Kohan  Luis Ruiolpe
Nancy Brown  Jose Krieger  Michael Ryan
David Calhoun  Theodore Kurtz  Helio Salgado
Robert Carey  Babbette LaMarca  Paul Sanders
Dulce Casarini  Eric Lazartigues  Jennifer Sasser
Lisa Cassis  Frans Leenen  Ernesto Schiffrin
Alejandro Chade  Liach Lerman  Tatsuo Shimosawa
Mark Chappell  Moshe Levi  Curt Sigmund
Fernanda Colombo  Scott Levick  Helmy Siraghy
Steven Crowley  Sarah Lindsey  James Sowers
J. Thomas Cunningham  Thomas Lohmeier  Joshua Speed
A Danser  Analia Loria  Jan Staessen
Katia De Angelis  James Luther  David Stec
Ralf Dechend  Dewan Majid  Johannes Stegbauer
Donald DiPette  Franco Mantero  Sean Stocker
Debra Diz  David Mattson  Jennifer Sullivan
Anna Dominiczak  Mariela Mendez  Colin Sumners
Satoru Eguchi  Francis Miller  Zhongjie Sun
Khalid Elased  Kenneth Mitchell  Ann Tallant
Fernando Elijovich  Augusto Montezano  Stephen Textor
Fernando Elijovich  Heitor Moreno  Rhian Touyz
Nicholas Ferreri  Dominik Muller  Raymond Townsend
Gregory Fink  Alberto Nasgetti  Paolo Verdecchia
Toshiro Fujita  Akira Nishiyama  Massimo Volpe
John Funder  Ravi Nistala  Richard Wainford
Michael Garrett  Edilamar Oliveira  Donna Wang
Jeffrey Garvin  Pablo Ortiz  Hanjun Wang
Eric George  John Osborn  Stephanie Watts
Roberto Gomez  Patrick Osei-Owusu  R. Clinton Webb
Celso Gomez-Sanchez  Suresh Palaniyandi  Michael Weber
Ming Gong  Joon Park  Myron Weinberger
Laura Gonzalez Bosc  Janos Peti-Peterdi  Mathew Weir
Joey Granger  Jennifer Pollock  William Welch
L. Lee Hamm  David Pollock  Ulrich Wenzel

Next year’s conference: Sept. 13–16, 2017 … visit professional.heart.org for more information.
### Room Locator

#### Tuesday, Sept. 13, 2016

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<th>Location</th>
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<td>Registration</td>
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<tr>
<td>3:00-7:00 PM</td>
<td>Speaker Resource Room</td>
<td>Europe 3</td>
</tr>
<tr>
<td>5:00-9:00 PM</td>
<td>Preparing for Professional Careers: What’s Your Brand?</td>
<td>Asia 4</td>
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#### Wednesday, Sept. 14, 2016

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<tr>
<td>7:00 AM-7:00 PM</td>
<td>Registration</td>
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<tr>
<td>8:00-9:00 AM</td>
<td>Opening Remarks and Keynote Lecture: The SPRINT TRIAL: Does Intensive Management of High Blood Pressure Further Reduce Rates of Cardiovascular Disease and Lower Risk of Death?*</td>
<td>Northern B-C</td>
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<tr>
<td>9:00-9:45 AM</td>
<td>Session 1: Panel: Is It Time to Reappraise Blood Pressure Thresholds and Targets?</td>
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<td>9:45-10:15 AM</td>
<td>Break - Refreshments and Exhibits</td>
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<tr>
<td>10:15 AM-Noon</td>
<td>Session 2: Obesity, Diabetes and Cardiovascular Disease</td>
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<td>Lunch Break on your own</td>
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<td>TAC Mentoring Luncheon (by invitation only)</td>
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<td>Session 3: The Vasculature in Hypertension</td>
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<td>Session 4: Novel Aspects of the Renin Angiotensin System</td>
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<td>Session 5: Hot Topics in Hypertension Research</td>
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<td>Session 7: Acute and Chronic Stress: Impact on Cardiovascular Health</td>
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<td>Poster Session 1 with Reception</td>
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<td>Concurrent 8 A: Inflammation and Immunity</td>
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<td>Concurrent 8 B: Clinical Symposia: Is Office Blood Pressure the Optimal Guide to Diagnosis and Treatment of the Disease Called Hypertension?</td>
<td>Asia 4</td>
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<td>8:00-10:00 AM</td>
<td>Concurrent 8 C: Renin Angiotensin System</td>
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<tr>
<td>10:30 AM-Noon</td>
<td>Concurrent 9 A: Neurogenic Mechanisms</td>
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<td>Break - Lunch on your own</td>
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<td>Concurrent 11 B: Hypertension Early Career Oral Award Session</td>
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*Become an AHA/ASA Professional Member and save up to $300 off next year’s registration.*
### Room Locator (continued)

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<td>Harry Goldblatt Award winner</td>
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<td>British Hypertension Society Young Investigator</td>
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<tr>
<td>7:00-11:00 PM</td>
<td>Trainee Advocacy Mixer</td>
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#### Friday, Sept. 16, 2016

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<tr>
<td>7:00 AM-7:00 PM</td>
<td>Registration</td>
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<tr>
<td>7:00 AM-8:00 AM</td>
<td>Coffee</td>
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<tr>
<td>7:00 AM-6:00 PM</td>
<td>Speaker Resource Room</td>
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<td>7:00 AM-5:15 PM</td>
<td>Exhibits</td>
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<td>Donald Seldin Award Lecture</td>
<td>Northern B-C</td>
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<tr>
<td>8:30-10:00 AM</td>
<td>Concurrent 13 A: Vascular Biology and Dysfunction</td>
<td>Northern B-C</td>
</tr>
<tr>
<td>8:30-10:00 AM</td>
<td>Concurrent 13 B: The Kidney: Cause and Consequences of Hypertension</td>
<td>Asia 4</td>
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<tr>
<td>8:30-10:00 AM</td>
<td>Concurrent 13 C: Hypertension Journal Case Studies – Hypertension Journal Clinical-Pathological Conference</td>
<td>Asia 5</td>
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<td>10:00-10:30 AM</td>
<td>Break - Refreshments and Exhibits</td>
<td>Northern D</td>
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<tr>
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<td>Harriet Dustan Award Lecture</td>
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<td>11:00 AM-12:30 PM</td>
<td>Concurrent 14 A: Hormones and Autacoids</td>
<td>Northern B-C</td>
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<td>Concurrent 14 B: Signaling in the Brain</td>
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<tr>
<td>11:00 AM-12:30 PM</td>
<td>Concurrent 14 C: Vascular and Neurogenic Mechanisms in Obesity</td>
<td>Asia 5</td>
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<td>12:30-2:00 PM</td>
<td>Awards and Annual Business Meeting Luncheon</td>
<td>Southern 3-5</td>
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<td>2:00-3:30 PM</td>
<td>Poster Session 3</td>
<td>Northern A 1-4</td>
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<td>Concurrent 15 A: Immune Mechanisms of Hypertension</td>
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<td>Concurrent 15 B: Salt and Hypertension</td>
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<td>Concurrent 15 C: Sex Differences and Women's Health</td>
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<td>Break - Refreshments and Exhibits</td>
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<td>5:15-6:00 PM</td>
<td>The Excellence Award for Hypertension Research Lectures</td>
<td>Northern B-C</td>
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<td>Reception for Excellence Award for Hypertension Research</td>
<td>Northern Foyer</td>
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<td>8:00-10:00 PM</td>
<td>Dinner for Excellence Award for Hypertension Research</td>
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#### Saturday, Sept. 17, 2016

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<td>Lewis K. Dahl Memorial Lecture</td>
<td>Northern B-C</td>
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<td>8:30-10:00 AM</td>
<td>Concurrent 17 A: Renal Hemodynamic and Tubular Mechanisms of Hypertension</td>
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<td>Concurrent 17 B: The Vasculature in Health and Disease</td>
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<tr>
<td>8:30-10:00 AM</td>
<td>Concurrent 17 C: Therapeutics and Clinical Trials</td>
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<tr>
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<td>Break - Refreshments</td>
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<tr>
<td>10:30 AM-Noon</td>
<td>Concurrent 18 A: Salt Sensitive Hypertension</td>
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<tr>
<td>10:30 AM-Noon</td>
<td>Concurrent 18 C: Developmental Programming and Pregnancy Induced Hypertension</td>
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</table>
Hotel Maps

Ballroom Level

Lobby Level

Become an AHA/ASA Professional Member and save up to $300 off next year’s registration.
Program Information

Conference Summary
The American Heart Association’s Hypertension 2016 Scientific Sessions presents the latest evidence in the optimal management of hypertension, obesity, metabolic syndrome and atherosclerosis. As one of the world’s most important medical meetings on hypertension, the conference includes a full-day session on recent advances in hypertension. It also features oral and poster presentations from abstracts submitted by clinical and basic researchers from more than 20 countries, followed by discussions led by leading authorities. The conference will provide an educational program for physicians and research investigators that will enhance their knowledge, advance their skills and apprise them of the latest developments in research pertaining to hypertension and its relationship to stroke, cardiac disease, kidney function/renal diseases, obesity and genetics.

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

1. Discuss recent studies linking air pollution and other novel risk factors with hypertension and identify unmet needs for future research.
2. Identify immune and inflammatory mechanisms that contribute to the development of hypertension and hypertension-related end-organ damage and opportunities for additional research.
3. Summarize current knowledge, and knowledge gaps, regarding the relationship between obesity and hypertension.
4. Describe recent research exploring the role of gut dysbiosis in hypertension as well as possible pathogenic mechanisms and clinical implications.
5. Describe new and emerging strategies for treating resistant hypertension and opportunities for further research and development.
6. Explain short- and long-term consequences of pre-eclampsia for both mother and child and the need for research to develop methods to assess maternal risk and provide early diagnosis.
7. Describe current research findings and identify opportunities to better understand genetic influences on hypertension risk and hypertension-associated comorbidities and disease processes.
8. Describe novel methods to measure hypertension that can be used in research and clinical practice.

Publish in JAHA – Journal of the American Heart Association
Submit at: jaha-submit.aha-journals.org

- AHA/ASA’s Open Access, Online-Only Journal. Fully Compliant With Open Access Mandates
- Ranked Among the Top 20 Journals in the Cardiac & Cardiovascular Systems Subject Category (Impact Factor, 5.117; 2016 Journal Citation Reports® Science Edition [Thomson Reuters, 2016])
- >540,000 Articles Downloaded in 2015
- >360,000 Online Visits in 2015
- All Articles Are Free to Read, Download, and Share
- Features Altmetric Scores (http://www.ahajournals.org/site/altmetric)
- Represents All 16 AHA/ASA Scientific Councils
Conference Highlights

Opening Session and Keynote Lecture
Please join us at 8:00 AM Wednesday, Sept. 14, for the opening session of the Council on Hypertension 2016 Scientific Sessions. Dr. William Cushman, MD, University of Tennessee College of Medicine, will present the keynote address: “The SPRINT TRIAL: Does Intensive Management of High Blood Pressure Further Reduce Rates of Cardiovascular Disease and Lower Risk of Death? Be sure to join us for this session in the Northern Ballroom B-C.

Workshop
The Trainee Advocacy Committee of the Council on Hypertension, in conjunction with the International Society of Hypertension New Investigator Committee, is pleased to offer a special pre-conference workshop, “Preparing for Professional Careers: What’s Your Brand?” While targeted to early career investigators and students, the workshop is open to all attendees. The workshop will take place at 5:00-9:00 PM, Tuesday, Sept. 13 in Asia 4. Check at the door to see if space is still available.

Reception and Poster Session Featuring Trainees
Wednesday, September 14, 7:00-9:00 PM
Northern Ballroom A
The annual gathering takes place after the recent advances sessions. This year’s poster session will highlight poster presentations by trainees and feature an on-site poster competition. Awards are co-sponsored by the Council on Hypertension 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. No additional fee for this event.

Award Session
Thursday, September 15, 5:00-6:30 PM
Northern Ballroom B-C
This special session will feature the Mid-Career Awardee, Harry Goldblatt New Investigator Awardee and the British Hypertension Society Awardee. See pages 11-12 for a listing of all awardees and join us for this special session.

Clinical Symposia
Is Office Blood Pressure the Optimal Guide to Diagnosis and Treatment of the Disease Called Hypertension? Held from 8:00-10:00 AM Thursday, Sept 15, this session is co-sponsored by the American Foundation for Hypertension Research and Education.

Hypertension Journal Case Study Session
Friday, September 16, 8:30-10:00 AM
Hypertension Journal Clinical-Pathological Conference
This 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 real-life clinical cases presented by clinicians and discussed with experts from Hypertension’s editorial board.

Council on Hypertension Annual Business Meeting and Conference Awards Luncheon
Friday, September 16, 12:30-2:00 PM
Southern Ballroom 3-5
Members and non-members are welcome. The business of the Council on Hypertension will be discussed. This event also includes a celebratory lunch to acknowledge the 2016 lecture award winners, the Lifetime Achievement Awardee and the winners of the New Investigator Awards. If you did not pre-register for this event, please visit the conference registration desk to see if tickets are still available. Details on the 2016 award winners can be found on page 11.

Strategically Focused Research Network Poster Session
Friday, September 16, 2:00–3:30 PM (Poster Session 3)
This special poster session will highlight research from AHA’s Strategically Focused Hypertension Network. The four centers focus on different areas of Hypertension Research from epigenomics of hypertension; abnormal diurnal rhythm of blood pressure; organ damage in hypertensive youth; and preeclampsia. The Hypertension Network was awarded July 1, 2015 for four years. There are currently five funded Networks, and the next two, Obesity and Children’s, have been named. Please find more information at http://professional.heart.org/professional/ResearchPrograms/StrategicallyFocusedResearchTopics/UCM_320471_Strategically-Focused-Research-Topics.jsp

Become an AHA/ASA Professional Member and save up to $300 off next year’s registration.
Program Information (continued)

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

- **Tuesday, September 13, 5:00-9:00 PM** – Pre-conference workshop “Preparing for Professional Careers: What’s Your Brand?”

- **Wednesday, September 14, Noon-1:30 PM** – CHAMP Lunch. Council on Hypertension Advisory and Mentoring Program (CHAMP). The CHAMP program is designed to enhance networking, professional opportunities, and professional development of our membership through mentee/mentor relationships. This year’s luncheon will feature a panel discussion from key thought leaders. *(invitation only)*

- **Wednesday, September 14, 7:00-9:00 PM** – Poster Session 1 featuring Trainees

- **Thursday, September 15, 5:00 PM** – Hypertension Early Career Oral Award Session. This 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 International Society of Hypertension New Investigator Committee.

- **Thursday, September 15, 7:00 PM** – Trainee Advocacy Dinner and Mixer. This popular annual event is co-sponsored by the Trainee Advocacy Committee of the Council for High Blood Pressure Research and the International Society of Hypertension New Investigator Committee. Open to all attendees until seating is filled

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.

Excellence Award for Hypertension Research
*Supported by a grant from Novartis Pharmaceuticals Corporation*

The events for this prestigious award begin with lectures at 5:15 PM Friday, Sept. 16. Join us for a conference-wide reception at 7:30-8:00 PM to honor this year’s recipients, R. Ariel Gomez, MD, FAHA and Suzanne Oparil, MD, FAHA. Dinner will begin at 8:00 PM. If you did not pre-register for this event, please visit the conference registration desk to see if tickets are still available.

Exhibits
Exhibits are located in *Northern D* beginning at 7:00 AM Wednesday, Sept. 14. Please take a moment to visit our exhibitors. Refreshments/coffee will also be available in *Northern D* in the morning and during breaks.

Exhibitor Hours:
- **Wednesday, Sept. 14, 7:00 AM-4:00 PM**
- **Thursday, Sept. 15, 7:00 AM-3:30 PM**
- **Friday, Sept. 16, 7:00 AM-5:15 PM**
The Council on Hypertension is pleased to present...

The Excellence Award for Hypertension Research
Supported by a grant from Novartis Pharmaceuticals Corporation

Friday September 16, 2016

Fate of Renin Cells During Development and Disease
R. Ariel Gomez, MD, FAHA
Harrison Distinguished Professor of Pediatrics
Director, Child Health Research Center
Director, Center of Excellence in Pediatric Nephrology
University of Virginia School of Medicine

Hormones and the Heart: Promises, Problems and Unresolved Issues
Suzanne Oparil, MD, FAHA
Distinguished Professor of Medicine
Professor of Cell, Developmental and Integrative Biology
Director, Vascular Biology and Hypertension Program
Division of Cardiovascular Disease
Department of Medicine
The University of Alabama at Birmingham

Lectures
5:15 PM
Northern Ballroom B-C

Reception
7:30 PM
Northern Foyer

Dinner
8:00 PM
Southern Ballroom 3-5
Pre-registration or invitation only
(ticket required for entrance)
Conference Awards

Irvine Page — Alva Bradley Lifetime Achievement Award
David Robertson, MD, FAHA, Vanderbilt University Medical Center
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 David Robertson, MD, FAHA, Vanderbilt University Medical Center. Please join us for the presentation during the Awards Luncheon at 12:30 PM Friday, Sept. 16, in the Southern Ballroom 3-5.

Arthur C. Corcoran Memorial Lecture
Karen Griffin, MD, FAHA, Hines VA Hospital
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 Karen Griffin, MD, FAHA, Hines VA Hospital on Thursday, Sept. 15 from 2:30-3:00 PM.

The Lewis K. Dahl Memorial Lecture
Tianxin Yang, MD, PhD, FAHA, University of Utah
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. Tianxin Yang, MD, PhD, FAHA will present the lecture from 8:00-8:30 AM Saturday, Sept. 17.

The Harriet Dustan Award
Jennifer Pollock, PhD, FAHA, University of Alabama at Birmingham
The Harriet Dustan Award is designed to recognize female investigators who have made outstanding contributions in the field of hypertension. This award was established 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 over 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, Jennifer Pollock, PhD, FAHA, will present her lecture from 10:30-11:00 AM Friday, Sept. 16.

The Donald Seldin Lecture
Jeffrey Garvin, PhD, FAHA, Case Western Reserve University
The Donald Seldin Lecture was created to honor Dr. Donald Seldin, a pioneer and leader in the field of cardiovascular disease as it relates to kidney failure. This lecture continues to raise the awareness about the rising epidemic of cardiovascular disease and mortality in patients with chronic kidney disease. The lecture will be presented by Jeffrey Garvin, PhD, FAHA from 8:00-8:30 AM Friday, Sept. 16.

Mid-Career Award for Research Excellence
Alejandro Chade, MD, FAHA, University of Mississippi Medical Center
The award recognizes a mid-career investigator active in hypertension or cardiovascular research. This year's winner, Alejandro Chade, MD, FAHA was selected for his major contributions to the field of hypertension. He will present from 5:00-5:20 PM Thursday, Sept. 15.
The Harry Goldblatt New Investigator Award  
*Sponsored by the Council on Hypertension*

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. His 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, Meena Madhur, MD, PhD, will present from 5:20-5:35 PM Thursday, Sept. 15.

### British Hypertension Society Young Investigator Award

Meixia Ren, Queen Mary University of London, winner of the BHS Young Investigator Prize, will present her abstract *The Biological Impact of Blood Pressure Associated SNPs in the Natriuretic Peptide Receptor C Gene on Human Vascular Smooth Muscle* from 5:35-5:50 PM Thursday, Sept. 15.

### Abstract Awards

#### Annual Council on Hypertension Conference New Investigator Award  
*Sponsored by the Council on Hypertension*

<table>
<thead>
<tr>
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<td>Colleen Cole Jeffrey</td>
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<td>Omeed Rahimi</td>
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<td>Roxana Loperena</td>
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<td>Ting Yang</td>
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<td>Sofiane Ouerd</td>
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<td>Nicola Wilck</td>
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<td>Kugeng Huo</td>
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<td>Changwei Li</td>
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<tr>
<td>Maria Peleli</td>
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#### Council on Hypertension New Investigator Award  
*Sponsored by the Council on Hypertension Trainee Advocacy Committee*

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<td>Christopher Banek</td>
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<td>Larry Agbor</td>
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<tr>
<td>Brian Kinsman</td>
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<tr>
<td>Eman Gohar</td>
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#### Kidney Council New Investigator Award  
*Sponsored by the Council on Kidney in Cardiovascular Disease*

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<tr>
<td>Sanket Patel</td>
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<tr>
<td>Cesar Romero</td>
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<td>Masafumi Oka</td>
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<tr>
<td>Vidya Nagalakshmi</td>
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<td>Sumit Monu</td>
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<tr>
<td>Tarek Ibrahim</td>
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<tr>
<td>Shengyu Mu</td>
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<td>Patrick Osei-Owusu</td>
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<td>Ankita Bachhawat Jaykumar</td>
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<tr>
<td>Louise Evans</td>
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Program Information (continued)

Hypertension Early Career Oral Award Session (Early Career Award Competition)
Sponsored by the Trainee Advocacy Committee of the Council for High Blood Pressure Research and the International Society of Hypertension New Investigator Committee

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<td>Mark Cunningham</td>
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<td>Nathan Rudemiller</td>
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<td>Allison Norlander</td>
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<tr>
<td>Mariane Bertagnolli</td>
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<tr>
<td>Heather Small</td>
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<td>September 15, 2016, 5:00 PM</td>
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</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. This 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 would like to thank the American Foundation for Hypertension Research and Education for their support of this award.

<table>
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<td>Lyndsey DuBose</td>
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<td>September 14, 2016, 6:00 PM</td>
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<tr>
<td>YanFei Qi</td>
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<tr>
<td>Niraj Vora</td>
<td>P179</td>
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<tr>
<td>Ram Kalagiri</td>
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<tr>
<td>Nimrt Goraya</td>
<td>P265</td>
<td>September 15, 2016, 1:00 PM</td>
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<tr>
<td>Luis Okamoto</td>
<td>P271</td>
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<tr>
<td>Seth Holwerda</td>
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<td>September 16, 2016, 12:00 PM</td>
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<tr>
<td>Jose Vilela-Martin</td>
<td>P306</td>
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<tr>
<td>Hossam Shaltout</td>
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<td>Hong Seok Lee</td>
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<td>Mark Santillian</td>
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<tr>
<td>Donna Santillan</td>
<td>P321</td>
<td>September 16, 2016, 2:00 PM</td>
</tr>
<tr>
<td>Maria Teresa Kristina Zaldivia</td>
<td>114</td>
<td>September 17, 2016, 8:45 AM</td>
</tr>
<tr>
<td>Andrew South</td>
<td>136</td>
<td>September 17, 2016, 11:45 AM</td>
</tr>
</tbody>
</table>

IASH/COH New Investigator Travel Award for Central and South American Trainees
This new award encourages early career/students from Central and South American countries who otherwise may be unable to attend due to limited funds. The award is proudly supported by the Inter-American Society of Hypertension.

<table>
<thead>
<tr>
<th>Name</th>
<th>Abstract/Presentation Number</th>
<th>Day/Time</th>
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</thead>
<tbody>
<tr>
<td>Alejandro Prado</td>
<td>P108</td>
<td>September 14, 2016, 6:00 PM</td>
</tr>
<tr>
<td>Kátia Scapini</td>
<td>P120</td>
<td>September 14, 2016, 6:00 PM</td>
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<tr>
<td>Janaina Ferreira</td>
<td>P161</td>
<td>September 14, 2016, 6:00 PM</td>
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<tr>
<td>Zaira Palomino Jara</td>
<td>P170</td>
<td>September 14, 2016, 6:00 PM</td>
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<tr>
<td>Alexandre Goes Martini</td>
<td>P193</td>
<td>September 14, 2016, 6:00 PM</td>
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<tr>
<td>Sabrina Gonalez</td>
<td>P203</td>
<td>September 14, 2016, 6:00 PM</td>
</tr>
<tr>
<td>Tiago Fernandes</td>
<td>P219</td>
<td>September 14, 2016, 6:00 PM</td>
</tr>
<tr>
<td>Fernanda Marins</td>
<td>19</td>
<td>September 15, 2016, 11:00 AM</td>
</tr>
<tr>
<td>Ludmila Peres Díaz</td>
<td>27</td>
<td>September 15, 2016, 11:30 AM</td>
</tr>
<tr>
<td>Daisy Motta-Santos</td>
<td>86</td>
<td>September 16, 2016, 4:15 PM</td>
</tr>
</tbody>
</table>

Journal of Clinical Science Investigator Award
Supported by the Journal of Clinical Science

Maria Teresa Kristina Zaldivia, Baker IDI Heart and Diabetes Institute

Next year’s conference: Sept. 13–16, 2017 … visit professional.heart.org for more information.
General Information

Registration
Conference registration is located in Northern D at the Dolphin Hotel. 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 will open at 2:00 PM Tuesday, Sept. 13, and will close at Noon on Saturday, Sept. 17.

Registration hours:
- Tuesday, Sept. 13: 2:00 PM–7:00 PM
- Wednesday, Sept. 14: 7:00 AM–7:00 PM
- Thursday, Sept. 15: 7:00 AM–7:00 PM
- Friday, Sept. 16: 7:00 AM–7:00 PM
- Saturday, Sept. 17: 7:00 AM–12:00 PM

Speaker Resource Room
The Speaker Resource Room is located in the Europe 3 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 Wednesday, Sept. 14, can visit the speaker ready room 3:00-7:00 PM Tuesday or as soon as possible starting Wednesday.) This will allow you time to prepare, rehearse and finalize your presentation before submitting it. Speakers may review and revise their presentations before submission.

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:
- Tuesday, Sept. 13: 3:00–7:00 PM
- Wednesday, Sept. 14: 7:00 AM–6:00 PM
- Thursday, Sept. 15: 7:00 AM–6:00 PM
- Friday, Sept. 16: 7:00 AM–6:00 PM
- Saturday, Sept. 17: 7:30–11:30 AM

Abstract Information
Abstracts 1-136 will be presented as oral presentations throughout the conference.
Late-breaking abstracts start at presentation number P600 and above. They will be presented during Poster Sessions 2 and 3.
Abstracts P347 to P364 and P600-P643 will be presented as poster presentations.
See pages 34-35 for details on poster presentations

ePosters

We are excited to offer ePosters at Hypertension 2016! Poster presenters were asked to upload an ePoster and audio/video file. The QR codes allow attendees to view poster information through their smart phones and listen/view the author’s discussion of the study through a pre-recorded audio/video file.
Policy Information

Disclaimer
The Hypertension 2016 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.

Embargo Guidelines
Abstracts, lectures and presentations in HTN 2016 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/America Stroke Association reserves 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 HTN 2016, 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 2016 Scientific Sessions, no later than Sept. 30, 2016.

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

### WEDNESDAY, SEPTEMBER 14

**7:00 AM**
Registration Opens  
Northern D  

**7:00 AM**
Exhibits and Coffee  
Northern D  

**8:00–9:00 AM**
**Session 1**  
Opening Remarks and Keynote Lecture  
Northern B-C  

**Moderators:**  
Joey Granger, PhD, FAHA, Chair, Program Committee, Council on Hypertension  
Christopher Wilcox, MD, FAHA, Chair, Council on Hypertension  

8:00  
Opening Remarks  
Joey Granger, PhD, FAHA, Chair, Program Committee, Council on Hypertension  

8:10  
Welcome Address  
Steven Houser, PhD, FAHA, President, American Heart Association  

8:20  
Opening Keynote Lecture: The SPRINT TRIAL: Does Intensive Management of High Blood Pressure Further Reduce Rates of Cardiovascular Disease and Lower Risk of Death?  
William Cushman, MD, University of Tennessee College of Medicine, Memphis Tennessee  

**9:00–9:45 AM**
**Session 1**  
Is It Time to Reappraise Blood Pressure Thresholds and Targets?  
Northern B-C  

**Discussion Leader:**  
Daniel W. Jones, MD, University of Mississippi Medical Center  

**Panelists:**  
Suzanne Oparil, MD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama  
Kenneth A. Jamerson, MD, University of Michigan, Ann Arbor, Michigan  
Ernesto Schiffrin, MD, PhD, FAHA, McGill University, Montreal, Quebec, Canada  

9:45–10:15 AM  
Refreshments and Exhibits  
Northern D  

**10:15 AM–12:00 PM**
**Session 2**  
Obesity, Diabetes, and Cardiovascular Disease  
Northern B-C  

**Moderator:**  
Anna Dominiczak, OBE, MD, FRCP, FRSE, Editor-in-Chief of Hypertension  

10:15  
**Molecular Mechanisms of Cardiometabolic Disease**  
Kenneth Walsh, PhD, Boston University School of Medicine, Boston, Massachusetts  

10:45  
**Molecular Regulation of Adipocyte Phenotype in Health and Disease**  
Paul Cohen, MD, PhD, Rockefeller University, New York, New York  

11:15  
**The EMPA-REG Trial – Is SGLT2 Inhibition Cardiorenal Protective?**  
Donald Kohan, MD, PhD, University of Utah Health Sciences Center, Salt Lake City, UtahT  

11:30  
**Possible Mechanisms of Cardiorenal Protection of SGLT2 Inhibitors**  
Christopher Wilcox, MD, PhD, Georgetown University, Washington, D.C.  

12:00–1:00 PM  
Lunch on your own  

**1:00–2:00 PM**
**Session 3**  
The Vasculature in Hypertension  
Northern B-C  

**Moderator:**  
Rhian Touyz, MD, PhD, Deputy Editor of Hypertension  

1:00  
**Arterial Stiffness, Fatness, and Physical Fitness: Ready for Intervention in Childhood and Across the Life Course?**  
Professor Kennedy Cruickshank, King’s College London, London, United Kingdom  

1:30  
**Transduction of Mechanical Signals in VSMCs**  
Heather Drummond, PhD, University of Mississippi Medical Center, Jackson, Mississippi  

**2:00–3:00 PM**
**Session 4**  
Novel Aspects of the Renin Angiotensin System  
Northern B-C  

**Moderator:**  
David Harrison, MD, Associate Editor of Hypertension  

2:00  
**How is the Brain Renin-Angiotensin System Regulated?**  
Curt Sigmund, PhD, University of Iowa, Iowa City, Iowa  

2:30  
**The Pathophysiologic Significance of the Adipocyte Renin-Angiotensin System in Cardiovascular Diseases**  
Lisa Cassis, PhD, University of Kentucky, Lexington, Kentucky
### Program Agenda (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Location</th>
<th>Moderators/Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00–4:00 PM</td>
<td>Session 5</td>
<td>Hot Topics in Hypertension Research</td>
<td>Northern B-C</td>
<td>S. Ananth Karumanchi, MD</td>
</tr>
<tr>
<td>3:00</td>
<td></td>
<td>Non-Pharmacological Approach to Antihypertensive Treatment: Efficacy, Problems and Perspectives</td>
<td></td>
<td>Jens Jordan, MD, Hannover Medical School, Hannover, Germany</td>
</tr>
<tr>
<td>3:30</td>
<td></td>
<td>An Update on the Link Between Gut Microbiota and Hypertension</td>
<td></td>
<td>Bina Joe, PhD, FAHA, University of Toledo Health Science, Toledo, Ohio</td>
</tr>
<tr>
<td>4:00–4:15 PM</td>
<td></td>
<td>Refreshments and Exhibits</td>
<td>Northern D</td>
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<tr>
<td>4:15–5:15 PM</td>
<td>Session 6</td>
<td>Hormones and Cardiovascular Disease</td>
<td>Northern B-C</td>
<td>Garry Jennings, MD, Associate Editor of Hypertension</td>
</tr>
<tr>
<td>4:15</td>
<td></td>
<td>Testosterone Replacement and Cardiovascular Disease</td>
<td></td>
<td>Shehzad Basaria, MD, Brigham and Women’s Hospital, Harvard Medical School, Boston, Massachusetts</td>
</tr>
<tr>
<td>4:45</td>
<td></td>
<td>Mineralocorticoid Receptor Activation and Cardiovascular Disease</td>
<td></td>
<td>Nancy Brown, MD, Vanderbilt University, Nashville, Tennessee</td>
</tr>
<tr>
<td>5:15–6:15 PM</td>
<td>Session 7</td>
<td>Acute and Chronic Stress: Impact on Cardiovascular Health</td>
<td>Northern B-C</td>
<td>Gregory Fink, PhD, Associate Editor of Hypertension</td>
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<tr>
<td>5:15</td>
<td></td>
<td>Assessment of Target Organ Damage from Cardiovascular Risk Factors in Youth</td>
<td></td>
<td>Elaine Urbina, MD, University of Cincinnati Children’s Hospital, Cincinnati, Ohio</td>
</tr>
<tr>
<td>5:45</td>
<td></td>
<td>Novel Mechanisms of Early Life Stress Mediated Cardiovascular Disease</td>
<td></td>
<td>Jennifer Pollock, PhD, University of Alabama at Birmingham, Birmingham, Alabama</td>
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</tbody>
</table>

### THURSDAY, SEPTEMBER 17

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Location</th>
<th>Moderators/Speakers</th>
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</thead>
<tbody>
<tr>
<td>7:00–9:00 PM</td>
<td>Poster Session 1</td>
<td>Trainee Onsite Poster Competition and Reception</td>
<td>Northern A 1-4</td>
<td>Posters P100-P232 will be presented during this session. It will also feature an on-site poster competition. All presenters who have not received a travel award are eligible for the competition. See pages 34 for details.</td>
</tr>
<tr>
<td>7:00 AM</td>
<td></td>
<td>Registration Opens</td>
<td>Northern D</td>
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<tr>
<td>7:00 AM</td>
<td></td>
<td>Exhibits and Coffee</td>
<td>Northern D</td>
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<tr>
<td>8:00–10:00 AM</td>
<td>Oral Session 8</td>
<td>Oral Session 8 Concurrent A Inflammation and Immunity</td>
<td>Northern B-C</td>
<td>Hana A. Itani, Vanderbilt University, Nashville, Tennessee; Nicola Wilck, Experimental and Clinical Research Center, Berlin, Germany</td>
</tr>
<tr>
<td>8:00</td>
<td></td>
<td>Hypertension Induces Heightened Activity of the Adaptive Immune System</td>
<td></td>
<td>Tuantuan Zhao, Department of Biomedical Sciences, Cedars-Sinai Medical Center, Los Angeles, California; Xiao Z. Shen, Department of Physiology, Zhejiang University School of Medicine, Hangzhou, Zhejiang, China; Ellen A. Bernstein, Kenneth E. Bernstein, Department of Biomedical Sciences, Cedars-Sinai Medical Center, Los Angeles, California</td>
</tr>
<tr>
<td>8:15</td>
<td></td>
<td>Adoptive Transfer of CD8 T Cells With Constitutively Active Pi3ky Induces Hypertension in Mice</td>
<td></td>
<td>Daniela Carnevale, Sapienza University of Rome at IRCCS Neuromed, Pozzilli (IS), Italy; Maria Piacenti, Giuseppe Cifelli, Roberta Iacobucci, IRCCS Neuromed, Pozzilli (IS), Italy; Giuseppe Lembo, Sapienza University of Rome at IRCCS Neuromed, Pozzilli (IS), Italy</td>
</tr>
<tr>
<td>8:30</td>
<td></td>
<td>Direct and Indirect Effects of Prostaglandin E2 and Its EP1/EP3 Receptors on Dendritic Cell Activation in Mice with L-NAME/High Salt-induced Hypertension</td>
<td></td>
<td>Liang Xiao, Hana A. Itani, Maria P. Kraemer, Richard M. Breyer, David G. Harrison, Vanderbilt University, Nashville, Tennessee</td>
</tr>
</tbody>
</table>
8:45  Aberrant CD4+ T Cell Function in Stroke-prone Hypertensive Rats Due to a Mutation in Stim1
     Isha S. Dhande, Mykola Mamenko, Yaming Zhu, Oleh Pochynyuk, University of Texas Health Science Center, Houston, Texas; Scott Wenderfer, Michael Braun, Baylor College of Medicine, Houston, Texas; Peter Doris, University of Texas Health Science Center, Houston, Texas

9:00  A Small-molecule Inhibitor of NLRP3 Inflammasome Activity, MCC950, Reduces Blood Pressure and Restores Renal Function in Hypertensive Mice
     Dorota M. Ferens, Shalini M. Krishnan, Michelle M. Kett, Yeong H. Ling, Katrina M. Mirabito, Monash University, Clayton, Australia; Avril A. Robertson, Matthew A. Cooper, The University of Queensland, Brisbane, Australia; Antony Vinh, Christopher T. Chan, Monash University, Clayton, Australia; Ashley Mansell, Hudson Institute of Medical Research, Clayton, Australia; Christopher G. Sobey, Grant R. Drummond, Monash University, Clayton, Australia

9:15  Let-7b Mirna Down-regulates Cytochrome P450 Epoxygenase II High Fat Diet-induced Obesity
     Ahmed A. Elmarakby, Mohamed A. Katary, Ahmed S. Ibrahim, Babak Baban, Mohamed Al-Shabrawey, Augusta University, Augusta, Georgia

9:30  TRPM7-kinase Modulates Renal and Splenic Macrophage and T-lymphocyte Infiltration in Aldosterone-salt-induced Hypertension
     Francisco J. Rios, Katie Y. Hood, Adam Harvey, University of Glasgow, Glasgow, United Kingdom; Karla B. Neves, University of São Paulo, Ribeirao Preto, Brazil; Panagiota Anyfanti, Aristotle University of Thessaloniki, Thessaloniki, Greece; Ryszard Nosalski, Livia L. Camargo, Augusto C. Montezano, Riojan M. Touyz, University of Glasgow, Glasgow, United Kingdom

8:00  Office Blood Pressure and Cardiovascular Disease: Pathophysiologic Implications for Diagnosis and Treatment
     Jay N. Cohn, MD, University of Minnesota, Minneapolis, Minnesota

8:20  Risk Assessment From Populations With and Without Prior Morbid Events as a Guide to Primary and Secondary Prevention Strategies
     Kunal Karnali, MD, Northwestern University, Chicago, Illinois

9:00  Functional and Structural Vascular Assessment: Usefulness in Individualized Diagnosis and Treatment
     Daniel A. Duprez, MD, University of Minnesota, Minneapolis, Minnesota

9:20  Genomic Supplements to Office Blood Pressure: Potential of Personalized Approach to Diagnosis and Treatment
     Anna Dominiczak, MD, University of Glasgow, Glasgow, United Kingdom

8:00  Genetically Modified Probiotics for Oral Delivery of Angiotensin-(1-7) Confers Protection Against Pulmonary Hypertension
     Colleen Cole Jeffrey, Vinayak Shenoy, Amrisha Verma, Victor Aquino, Ashok Kumar, Zhibing Liang, Qiuhong Li, Michael Katovich, Mohan Raizada, University of Florida, Gainesville, Florida
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:15</td>
<td>CD44 and CD44+ Cells are Dispensable for the Recruitment of Renin Expressing Cells</td>
<td>Maria Luisa S. Sequeira Lopez, Brian C. Belyea, Rajwinderjit Kaur, Silvia Medrano, R. Ariel Gomez, University of Virginia, Charlottesville, Virginia</td>
</tr>
<tr>
<td>8:30</td>
<td>An Orally Absorbable Potent NHE3 Inhibitor Attenuates Angiotensin II-induced Hypertension Primarily by Inhibiting NHE3 in the Proximal Tubule of the Kidney</td>
<td>Xiao C. Li, Hoang Nguyen, Jia L Zhuo, University of Mississippi Medical Center, Jackson, Mississippi</td>
</tr>
<tr>
<td>8:45</td>
<td>Involvement of Drp1, A Mitochondrial Fission Inducer, in Angiotensin II-induced Hypertensive Vascular Remodeling in vitro and in vivo</td>
<td>Tatsuo Kawai, Steven J. Forrester, Katherine J. Elliot, Kunie Eguchi, Victor Rizzo, Satoru Eguchi, Cardiovascular Research Center, Temple University School of Medicine, Philadelphia, Pennsylvania</td>
</tr>
<tr>
<td>9:00</td>
<td>Genetic Ablation of Mas Receptor Impairs Mobilization of Bone Marrow Progenitor Cells</td>
<td>Goutham Vasam, Shrinidh Joshi, North Dakota State University, Fargo, North Dakota; Sean Thatcher, Lisa A. Cassis, University of Kentucky, Lexington, Kentucky; Yagna P. Jarajapu, North Dakota State University, Fargo, North Dakota</td>
</tr>
<tr>
<td>9:15</td>
<td>Collecting Duct Specific Deletion of the (Pro)renin Receptor Modulates ENaC Expression</td>
<td>Nirupama Ramkumar, Deborah Stuart, Kai Song, Nikita Abraham, Shuping Wang, University of Utah, Salt Lake City, Utah; Atsuhiro Ichihara, Tokyo Women’s Medical University, Tokyo, Japan; Donald E. Kohan, University of Utah, Salt Lake City, Utah</td>
</tr>
<tr>
<td>9:30</td>
<td>Immunosuppression Attenuates Intrarenal Angiotensinogen Augmentation in Angiotensin II Dependent Hypertension</td>
<td>Ryousuke Satou, Department of Physiology and Hypertension and Renal Center of Excellence, Tulane University School of Medicine, New Orleans, Louisiana; Martha G. Franco, Departments of Nephrology and Pathology, Insto Nacional de Cardiologia, Mexico City, Mexico; Akemi Katsurada, Kayoko Miyata, L. G. Navar, Department of Physiology and Hypertension and Renal Center of Excellence, Tulane University School of Medicine, New Orleans, Louisiana</td>
</tr>
<tr>
<td>9:45</td>
<td>Cells Programmed for the Renin Phenotype Contribute to Vascular Pathology in Renin Deficient Mice</td>
<td>Masafumi Oka, Silvia Medrano, Maria Luisa S. Sequeira-Lopez, R Ariel Gomez, University of Virginia, Charlottesville, Virginia</td>
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<tr>
<td>10:00</td>
<td>Refreshments and Exhibits</td>
<td>Northern D</td>
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<td>10:30</td>
<td>Oral Session 9</td>
<td>17</td>
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<tr>
<td>10:45</td>
<td>Optogenetic Activation of OVLT Neurons Stimulates Water Intake and Produces a Sympathetically-Mediated Increase in Arterial Blood Pressure</td>
<td>Sean D. Stocker, Sarah S. Simmonds, Penn State University College of Medicine, Hershey, Pennsylvania</td>
</tr>
<tr>
<td>11:00</td>
<td>Evidence that Remodeling of Insular Cortex Neurovascular Unit Contributes to Hypertension-related Sympathoexcitation</td>
<td>Fernanda Ribeiro Marins, Univ Federal de Minas Gerais, Belo Horizonte, Brazil; Jennifer A. Iddings, Augusta University, Augusta, Georgia; Marco Antonio Fontes, Univ Federal de Minas Gerais, Belo Horizonte, Brazil; Jessica A. Filosa, Augusta University, Augusta, Georgia</td>
</tr>
<tr>
<td>11:15</td>
<td>Physiological Significance of Angiotensin AT1A Receptors in Vasopressin-producing Cells of the Supraoptic Nucleus</td>
<td>Danny W. Linggongegoro, Jeremy A. Sandgren, Kristin E. Ciatin, Katherine J. Perschbacher, Jonathan Ni, Nicole A. Pearson, Gary L. Pierce, Mark K. Santillan, Justin L. Grobe, University of Iowa, Iowa City, Iowa</td>
</tr>
<tr>
<td>11:30</td>
<td>Macrophage-dependent Impairment of the Alpha 2-adrenergic Receptor Occurs in DOCA-salt but Not Obesity-associated Hypertension</td>
<td>Ryan Mui, Roxanne Fernandes, Hannah Garver, Gregory Fink, Hui Xu, James Galligan, Michigan State University, East Lansing, Michigan</td>
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</tbody>
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Program Agenda

11:45  Blood Pressure-Lowering Effect of Local Passive Heat in Autonomic Failure Patients with Supine Hypertension
Luis E. Okamoto, Jorge E. Celedonio, Alfredo Gamboa, Cyndya A. Shibao, Satish R. Raj, Andre Diedrich, Sachin Paranjape, Bonnie K. Black, David Robertson, Vanderbilt Univ Medical Ctr, Nashville, TN; Craig C. Crandall, Univ of Texas Southwestern Medical Ctr, Dallas, TX; Italo Biaggiioni, Vanderbilt Univ Medical Ctr, Nashville, TN

10:30 AM
Oral Session 9 Concurrent B Cardiac Hypertrophy and Dysfunction
Asia 4
Moderators:
Oscar A Carretero, Henry Ford Hospital, Detroit, Michigan
Ji Li, University of Mississippi Medical Center, Jackson, Mississippi

10:30
Angiotensin-(1-7) Reduces Doxorubicin-Induced Cardiac Fibrosis
Omeed Rahimi, Wake Forest University School of Medicine, Winston-Salem, North Carolina; E. Ann Tallant, Wake Forest University School of Medicine, Lewisville, North Carolina; Patricia E. Gallagher, Wake Forest University School of Medicine, Winston-Salem, North Carolina

10:45
PGC-1α is a Critical Activator of HO-1 That Protects Against Cardiomyopathy in Diabetic Mice Through Recruitment of Mitochondrial Fusion Proteins and Function
Jian Cao, First Department of Geriatric Cardiology, Chinese PLA General Hosp, Beijing, China; John A. McClung, Department of Cardiology, New York Medical College, Valhalla, New York; Maayan Waldman, Leviev Heart Ctr Sheba Medical Center, Tel Hashomer and Sackler School of Medicine, Tel-Aviv University, Tel-Aviv, Israel; Shailendra P. Singh, Joseph Schragenheim, Department of Pharmacology, New York Medical College, Valhalla, New York; Michael Arad, Cardiac Research Lab, Felsenstein Medical Research Institute, Tel-Aviv University, Tel-Aviv, Israel; Edith Hochhauser, Leviev Heart Center Sheba Medical Center, Tel Hashomer and Sackler School of Medicine, Tel Hashomer and Sackler School of Medicine, Tel-Aviv University, Tel-Aviv, Israel; Nader Abraham, The Rockefeller University, New York, New York, Department of Medicine and Pharmacology, New York Medical College, Valhalla, New York

11:00
AMP-activated Protein Kinase Mediates Pressure Overload-induced Hypertrophy
Jinli Wang, State University of New York at Buffalo, Buffalo, New York; Nanhu Quan, Lin Wang, Courtney Cates, Ji Li, University of Mississippi Medical Center, Jackson, Mississippi

11:15
Role of Tank in the Regulation of Pathological Cardiac Hypertrophy
Hongliang Li, Peng Zhang, Wuhan University, Wuhan, China

11:30
Participation of Cardiac Thyrotroping Releasing Hormone (cTRH) in the Doxorubicin (D) Induced Cardiotoxicity in Mice
Ludmila S. Peres Diaz, Mariano L. Schuman, Maia Aisicovich, Maria S. Landa, Silvia I. Garcia, Institute of Medical Research, A. Lanari, CABA, Argentina

10:30 AM
Oral Session 9 Concurrent C Pregnancy and Preeclampsia
Asia 5
Moderators:
Babbette LaMarca, University of Mississippi Medical Center, Jackson, Mississippi
Styliani Goulopoulou, University of North Texas Health Science Center, Fort Worth, Texas

10:30
Photoacoustic Imaging – Novel In Vivo Quantification of Placental Hypoxia in a Mouse Model of Hypertensive Pregnancy
Liliya M. Yamaleyeva, Tiffaney Bledsoe, K. Bridget Brosnihan, Wake Forest School of Medicine, Winston-Salem, North Carolina

10:45
Contractions to Thromboxane A2 in a Rat Model of Pregnancy-induced Hypertension
Oluwatobiloba Osikoya, Paresh A. Jaini, An Nguyen, Melissa Valdes, Styliani Goulopoulou, University of North Texas Health Science Center, Fort Worth, Texas

11:00
Placental Ischemia Causes Mitochondrial Dysfunction in Reduced Uterine Perfusion Pressure Rats
Venkata Ramana Vaka, Mark W. Cunningham Jr., Tarek Ibrahim, Lorena M. Amaral, Babbette LaMarca, University of Mississippi Medical Center, Jackson, Mississippi
Program Agenda (continued)

11:15 Soluble fms-like Tyrosine Kinase-1 (sFlt-1)/Placental Growth Factor (PIGF) Imbalance Disrupts Vascular and Uteroplacental Gelatinolytic Matrix Metalloproteinase MMP-2 and -9 and Collagenolytic MMP-1 and -7 Balance in Hypertensive Pregnancy
Ning Cui, Zongli Ren, Raouf A. Khalil, Harvard Medical School, Boston, Massachusetts

11:30 Differential Vasopressin Receptor Expression on CD4+ T Cells from Mouse and Human Preeclamptic Pregnancies
Sabrina M. Scroggins, Donna A. Santillan, Jenna M. Peterson, Nicole A. Pearson, Jeremy A. Sandgren, Eric J. Devor, Daffney T. Gomendoza, Gary L. Pierce, Justin L. Grobe, Mark K. Santillan, University of Iowa, Carver College of Medicine, Iowa City, Iowa

11:45 Characterization of A Novel Maternally Restricted Pro-angiogenic Therapeutic for Preeclampsia
William H. Stewart, Eric George, Gene L. Bidwell III, Heather Chapman, Fakhri Mahdi, Logan Wilson, University of Mississippi Medical Center, Jackson, Mississippi

12:00–1:00 PM
Lunch on your own
Exhibits
Northern D

1:00–2:30 PM
Poster Session 2
Northern A 1-4

Posters P233-P297 and P600-P620 will be presented during this session. See page 34 for details.

2:30–3:00 pm
Session 10
Arthur C. Corcoran Memorial Lecture
Northern B-C

2:30 Hypertensive Kidney Injury and the Progression of Chronic Kidney Disease
Karen Griffin, MD, FAHA, Hines VA Hospital

3:30–5:00 PM
Oral Session 11

3:30 PM
Oral Session 11 Concurrent A
Metabolic Syndrome
Northern B-C

Moderators:
John E. Hall, University of Mississippi Medical Center, Jackson, Mississippi
Eric J. Belin de Chantemele, Georgia Regents University, Augusta, Georgia

3:30 Differential Effects of Bardet-biedl Syndrome 1 Gene Deletion from Agouti-related Peptide Neurons
Deng F. Guo, University of Iowa City, Iowa; John J. Reho, Donald A. Morgan, Kamal Rahmouni, the University of Iowa City, Iowa

3:45 Mitoprotection Preserves the Cytoskeleton and Alleviates Myocardial Injury in Early Swine Metabolic Syndrome
Fang Yuan, Henan Provincial People's Hospital, Zhengzhou, China; John R. Woollard, Kyra L. Jordan, Amir Lerman, Lilach O. Lerman, Alfonso Eirin, Mayo Clinic, Rochester, Minnesota

4:00 Role of Pro-opiomelanocortin (POMC) Specific PTP1B in Differential Regulation of Blood Pressure, Liver Lipid Accumulation and Glucose Tolerance in Response to a High Fat Diet
Nicola Aberdein, Jussara M. do Carmo, Zhen Wang, TaoLin Fang, Cecilia P. de Lara, John E. Hall, University of Mississippi Medical Center, Jackson, Mississippi

4:15 Hyperglycemia Mediated Cardiac Damage in High-Fat Fed E487K Aldehyde Dehydrogenase 2 (ALDH 2*2) Mutant Diabetic Mice: Role for ALDH2 Activation
Guodong Pan, Suressh Palaniyandi, Henry Ford Health System, Detroit, Michigan

4:30 Adipocyte (pro)renin-receptor is a Master Regulator of Adipocyte Differentiation
Frederique B. Yiannikouris, Department of Pharmacology and Nutritional Sciences, Lexington, Kentucky

4:45 Comparison of Effects of Reux en Y Gastric Bypass and Intra-abdominal Lipectomy on Cardiovascular Function in the Metabolic Syndrome
Amanda Soler, Brenda Hutcheson, Jenny Yang, New York Medical College, Valhalla, New York; Chastity Bradford, Tuskegee University, Tuskegee, Alabama; Frank Zhang, Katie Gotlinger, Michal L. Schwartzman, Petra Rocic, New York Medical College, Valhalla, New York

Next year’s conference: Sept. 13–16, 2017 … visit professional.heart.org for more information.
3:30–5:00 PM
Oral Session 11 Concurrent B
Hypertension Early Career Oral Award Session
Asia 4

Moderators:
Aaron J. Trask, The Research Institute at Nationwide Children's Hospital, Columbus, Ohio
Praveen Veerabhadrappa, Penn State Berks, Reading, Pennsylvania

3:30 mTORC1 is Required for Leptin-induced Sympathetic Activation to the Kidney but Not Brown Adipose Tissue
Balyssa B. Bell, Donald A. Morgan, Kamal Rahmouni, University of Iowa, Iowa City, Iowa

3:45 Selective Maternal Hepatic Silencing of Angiotensinogen in Reduced Uterine Placental Perfusion Pressure Rats Improves Blood Pressure and Fetal Weights
Mark W. Cunningham Jr., University of Mississippi Medical Center, Jackson, Mississippi; Nadine Haase, Experimental and Clinical Research Center Helios Clinic, Berlin, Germany; Jessica L. Faulkner, Tarek Ibrahim, Venkata Ramana Vaka, University of Mississippi Medical Center, Jackson, Mississippi; Ralf Dechend, Experimental and Clinical Research Center Helios Clinic, Berlin, Germany; Don Foster, Anylam Pharmaceuticals, Cambridge, Massachusetts; Babette LaMarca, University of Mississippi Medical Center, Jackson, Mississippi

4:00 Dendritic Cells Mediate Renal T Cell Activation in Hypertension
Nathan P. Rudemiller, Jiandong Zhang, Gianna E. Hammer, Yen-Rei A. Yu, Robert Griffiths, Michael D. Gunn, Steven D. Crowley, Duke Univ, Durham, North Carolina

4:15 Deletion of Serum and Glucocorticoid-regulated Kinase 1 (SGK1) in T Cells Attenuates Hypertension and Renal/Vascular Dysfunction
Allison E. Norlander, Vanderbilt University, Nashville, Tennessee; Mohamed A. Saleh, Mansoura University, Mansoura, Egypt; Arvind K. Pandey, Hana A. Itani, Vanderbilt University, Nashville, Tennessee; Jing Wu, Iowa University, Iowa City, Iowa; Liang Xiao, Bethany L. Dale, David G. Harrison, Meena S. Madhur, Vanderbilt University, Nashville, Tennessee

4:30 Endothelial Colony Forming Cells Dysfunction Relates to Cardiovascular Alterations in Preterm Born Adults
Mariane Bertagnoli, Katryn Paquette, Megan Sutherland, Marie-Amelie Łukaszewski, Ying He, Anik Cloutier, Rong Wu, Jean-Luc Bigras, Sainte-Justine University Hospital Research Center, University of Montreal, Montréal, QC, Canada; Bernard Thebaud, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada; Thuy Mai Luu, Anne Monique Nuyt, Sainte-Justine University Hospital Research Center, University of Montreal, Montréal, QC, Canada

4:45 The Role of Tumor Necrosis Factor α and Natural Killer Cells in Uterine Artery Function During Pregnancy in the Stroke Prone Spontaneously Hypertensive Rat
Heather Y. Small, Ryszard Nosalski, Hannah Morgan, Elisabeth Beattie, Tomasz Guzik, DeLyth Graham, Christian Delles, University of Glasgow, Glasgow, United Kingdom

3:30 PM
Oral Session 11 Concurrent C
Genetics and Epigenetics
Asia 5

Moderators:
Sivarajan Kumarasamy, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio
Mingyu Liang, Medical College of Wisconsin, Milwaukee, Wisconsin

3:30 Activation of Sirt1 Deacetylase Attenuates Klotho Deficiency-induced Arterial Stiffness and Hypertension
Amy Gao, Quaisar Ali, Zhong Zuo, Yi Lin, Han Lei, Zhongjie Sun, University of Iowa Carver College of Medicine, Iowa City, Iowa; Don Foster, Alnylam Pharmaceuticals, Cambridge, Massachusetts; Babette LaMarca, University of Mississippi Medical Center, Jackson, Mississippi

3:45 Expression of a Hypertension-causing Mutation in Cullin 3 (CUL3Δ9) Specifically in Smooth Muscle Causes Vascular Dysfunction and Hypertension
Larry N. Agbor, Jing Wu, Stella-Rita C. Ibeawuchi, Chunyan Hu, Deborah R. Davis, Henry L. Keen, Frederick W. Quelle, Curt D. Sigmund, University of Iowa Carver College of Medicine, Iowa City, Iowa

4:00 Phosphodiesterase-3a Catalytic-domain Mutation and Hypertension
Sylvia Bähring, Medical Faculty of the Charite, Berlin, Germany; Carolin Schächterle, Max-Delbrück Ctr, Berlin, Germany; Atakan Aydin, Medical Faculty of the Charite, Berlin, Germany; Enno Klussmann, Max-Delbrück Ctr, Berlin, Germany; Friedrich C. Luft Esq., Medical Faculty of the Charite, Berlin, Germany

4:15 mir-192-5p in the Kidney is Protective Against the Development of Hypertension
Maria Angeles Baker, Pengyuian Liu, Yong Liu, Alisson Kriegel, Kevin Regner, Mingyu Liang, Medical College of Wisconsin, Wauwatosa, Wisconsin
THURSDAY/FRIDAY

4:30 A Panel of CRISPR/Cas9 Genome Edited Rat Models Define Quantitative Trait Nucleotides within a Novel Rat Long Non-coding RNA Implicated in Cardiovascular Disease

Xi Cheng, Harshal Waghulde, Blair Mell, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio; Shondra Miller, Washington University, St. Louis, Missouri; Wanda Filipiak, Thomas Saunders, University of Michigan, Ann Arbor, Michigan; Bina Joe, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio

4:45 Direct Correlation Between Blood Pressure and Nephron Endowment in a Genetic Mouse Model of Hypertension

Sean P. Didion, University Mississippi Medical Center, Jackson, Mississippi; Xuexiang Wang, Rush University Medical Center, Chicago, Illinois; Michael R. Garrett, University of Mississippi Medical Center, Jackson, Mississippi

5:00–5:50 PM
Session 12
Awards Session
Northern B-C

Moderators:
Joey Granger, University of Mississippi Medical Center, Jackson, Mississippi
Christopher S. Wilcox, Georgetown University Medical Center, Washington, DC

5:00 Mid-Career Award for Research Excellence Small Vessels, Big Role: Renal Microcirculation and Progressive Renal Injury
Alejandro Chade, MD, FAHA, University of Mississippi Medical Center

5:20 The Harry Goldblatt New Investigator Award Seventeen Ways To Treat Hypertension
Meena Madhur, MD, PhD, Vanderbilt University Medical Center

5:35 British Hypertension Society Young Investigator Award The Biological Impact of Blood Pressure Associated SNPs in the Natriuretic Peptide Receptor C Gene on Human Vascular Smooth Muscle
Meixia Ren, Queen Mary University of London

7:00–11:00 PM
Trainee Advocacy Mixer
Australia 3

*Open to all. Seating is limited. First come, first served.

FRIDAY, SEPTEMBER 16

7:00 AM
Registration Opens
Northern D

7:00 AM
Exhibits and Coffee
Northern D

8:00–10:00 AM
Oral Session 13

8:00 Not all Sugars Are Sweet: The Case for Fructose-Induced Salt-Sensitive Hypertension
Jeffrey Garvin, PhD, FAHA Case Western Reserve University

8:30 RhoBTB1 is a Novel Gene Protecting Against Hypertension
Masashi Mukohda, Stella-Rita C. Ibeawuchi, Chunyan Hu, Ko-Ting Lu, Debbie R. Davis, Deng Fu Guo, Anand R. Nair, Larry N. Agbor, Jing Wu, Kamal Rahmouni, Frederick W. Quelle, Curt D. Sigmund, University of Iowa Carver College of Medicine, Iowa City, Iowa

9:00 Benefit of Mineralocorticoid Receptor Antagonism in Acute Kidney Injury: Role of Smooth Muscle Rac1
Jonatan Barrera-Chimal, Gwennan André-Grégoire, Sonia Prince, INSERM U1138, Paris, France; Peter Kolkhof, BAYER Pharma AG, Cardiology Res, Wuppertal, Germany; Vincent Sauzeau, INSERM U1087, Nantes, France; Frederic Jaisser, INSERM U1138, Paris, France
Isolevuglandin-modified Phosphatidyethanolamines Generate Hypertension and Vascular Dysfunction in Mice
Arvind K. Pandey, Hana A. Itani, Liang Xiao, Annet Kirabo, Sergey Dikalov, Sean Davies, David G. Harrison, Vanderbilt University, Nashville, Tennessee

Nox5 Induces Vascular Dysfunction and Arterial Remodelling Independently of Blood Pressure Elevation in Ang II-infused Nox5-expressing Mice
Augusto C. Montezano, Adam P. Harvey, Francisco J. Rios, Maria Dulak-Lis, Wendy Beatie, Laura McPherson, Institute of Cardiovascular and Medical Sciences – University of Glasgow, Glasgow, United Kingdom; Chet E. Holterman, Christopher R. Kennedy, Kidney Research Center – Ottawa Hospital Research Institute, Ottawa, Ontario, Canada; Rhian M. Touyz, Institute of Cardiovascular and Medical Sciences – University of Glasgow, Glasgow, United Kingdom

Transforming Growth Factor β1 Antagonizes Npr1 Expression and Vascular Signaling: Role of Transcription Factor ΔEF1
Anagha Sen, Prema Kumar, Sarah H. Lindsey, Prasad V. Katakam, Meaghan Bloodworth, Kailash N. Pandey, Tulane University, New Orleans, Louisiana

8:30 AM
Oral Session 13 Concurrent B
The Kidney: Causes and Consequences of Hypertension
Asia 4

Moderators:
Lilach Lerman, Mayo Clinic, Rochester, Minnesota
Jennifer Pluznick, Johns Hopkins University, Baltimore, Maryland

Kidney Specific DPP4 Knockdown Prevents Ang II/DOCA Salt Injury and Proteinuria
Jianzhong An, Qiuer Liu, Cassandra Smith, Ravi Nistala, University of Missouri-Columbia, Columbia, Missouri

Tauroursodeoxycholic Acid (TUDCA) Prevents High Salt-Induced Renal Damage in ETB Deficient Rats in a Blood Pressure-Independent Manner
Carmen De Miguel, Randee Sedaka, Andrew Abad, Janet L. Hobbs, David M. Pollock, Jennifer S. Pollock, University of Alabama at Birmingham, Birmingham, Alabama

Cell Fate Changes During Tubular Damage and Regeneration in the Mouse Kidney
Vidya K Nagalakshmi, Minghong Li, R. Ariel

8:30 AM
Session 13 Concurrent C
Hypertension Journal Clinical-Pathological Conference
Asia 5

Moderators:
Prof. Dame Anna F. Dominiczak, MD, University of Glasgow, Glasgow, UK
Prof. Rhian M. Touyz, MD, PhD, Inst of Cardiovascular and Medical Sciences, Glasgow, UK

Case 1 Chronic Deep Brain Stimulation Decreases Blood Pressure and Sympathetic Nerve Activity in a Drug- and Device- resistant Hypertensive Patient
Presented by: Dr. Erin O’Callaghan, PhD, University of Bristol and Mr. Nikunj K. Patel, MD, North Bristol NHS Trust

Case 2 Hypertension and its Complications in a Young Man with Autoimmune Disease
Presented by: Dr. Eve Miller-Hodges (British Heart Foundation Centre for Cardiovascular Science, University of Edinburgh), Dr. Robert Hunter, University of Edinburgh and Dr. Neeraj Dhaun, British Heart Foundation Centre for Cardiovascular Science, University of Edinburgh

10:00–10:30 AM
Refreshments and Exhibits
Northern D
Program Agenda (continued)

10:30 AM–12:30 PM
Oral Session 14

10:30 AM
The Harriet Dustan Award Lecture
Northern B-C

10:30 Not All Nitric Oxide is Created Equal
Jennifer Pollock, PhD, FAHA,
University of Alabama at Birmingham

11:00 AM
Oral Session 14 Concurrent A
Hormones and Autacoids
Northern B-C

Moderators:
R. Ariel Gomez, University of Virginia,
Charlottesville, Virginia
Nirupama Ramkumar, University of Utah,
Salt Lake City, Utah

11:00 Overexpression of an Intracellular
Angiotensin II Fusion Protein Selectively
in the Mitochondria of the Proximal
Tubules Elevates Blood Pressure in Mice
via AT1a Receptor-mediated Mitochondrial
Respiratory and Glycolysis Stress
Xiao C. Li, University of Mississippi Medical
Center, Jackson, Mississippi; Manoocher
Soleiman, University of Cincinnati, Cincinnati,
Ohio; Hoang Nguyen, University of Mississippi
Medical Center, Jackson, Mississippi; Hong Li,
University of Cincinnati, Cincinnati, Ohio; Jia L.
Zhuo, University of Mississippi Medical Center,
Jackson, Mississippi

11:15 Enhancer Repertoires That Define Renin
Cell Identity
Maria F. Martinez, Silvia Medrano, Masafumi
Oka, Ellen S. Pertz, Allan W. Dickerman,
Mazhar Adli, Maria Luisa S. Sequeira-Lopez,
R. Ariel Gomez, University of Virginia,
Charlottesville, Virginia

11:30 Unexpected Actions of the Endothelial-EP4
Receptor for PGE2 to Promote Hypertension
Ting Yang, Marcela Herrera, Matthew A. Sparks,
Michael Manning, Duke University, Durham, North
Carolina; Beverly H. Koller, University of North
Carolina, Chapel Hill, North Carolina; Thomas M.
Coffman, Duke University, Durham, North Carolina

11:45 Endothelin-1 Exaggerates Type-1 Diabetes-
accelerated Atherosclerosis Through NADPH
Oxidases 1 and 4
Sofiane Ouerd, Noureddine Idris-Khodja,
Hypertension and Vascular Research Unit,
Lady Davis Institute for Medical Research,
SMBD-Jewish General Hospital, McGill University,
Montreal, QC, Canada; Mario F. Neves, State University of Rio de Janeiro,
Rio de Janeiro, Brazil; Karin A. Jandeleit-Dahm,
Baker IDI Heart & Diabetes Research Institute,
Melbourne, Australia; Pierre Paradis, Hypertension
and Vascular Research Unit, Lady Davis Institute
for Medical Research, SMBD-Jewish General
Hospital, McGill University, Montreal, QC, Canada;
Ernesto L. Schiffrin, Hypertension and Vascular
Research Unit, Lady Davis Institute for Medical
Research, Department of Medicine, SMBD-Jewish
General Hospital, McGill University, Montreal,
QC, Canada

12:00 β-Catenin Signaling Contributes to
Angiotensin II-Induced Hypertension via
Activation of Sodium Transporters in the
Distal Nephron
Xiaohan Lu, Kexin Peng, Fei Wang, Inst of
Hypertension, Guangzhou, China; Tianxin
Yang, University of Utah, Salt Lake City, Utah

12:15 Discovery of a Novel Class of Endogenous,
Small-molecule, Potent, Efficacious and
Potassium-sparing Diuretics/Natriuretics with
Antihypertensive and Glucosuric Activity
Edwin K. Jackson, Delbert G. Gillespie,
Zaichuan Mi, University of Pittsburgh,
Pittsburgh, Pennsylvania

11:00 AM
Oral Session 14 Concurrent B
Signaling in the Brain
Asia 4

Moderators:
Bryan Becker, University of Alabama at Birmingham,
Birmingham, Alabama
Helio C. Salgado Sr., School of Medicine of Ribeirão
Preto, Ribeirão Preto, Brazil

11:00 Adam17-mediated Neurogenic
Hypertension Requires Neuronal
Activation of At1a Receptors
Jiaxi Xu, Srinivas Sriramula, David A. Martin,
Eric Lazartigues, Louisiana State University
Health Sciences Center, New Orleans,
Louisiana

11:15 Brain Epithelial Sodium Channels on
Organum Vasculosum of the Lamina
Terminalis Neurons Mediate
Sympathoexcitatory Pressor Responses and
Neuronal Excitation by Hypertonic NaCl
Brian J. Kinsman, Kirsteen N. Browning,
Sean D. Stocker, Penn State College of
Medicine, Hershey, Pennsylvania

11:30 Hindbrain Angiotensin Type-2 Receptors
and Hypertension
Annette D. de Kloet, Lei Wang, Jacob A.
Ludin, Helmut Hiller, Justin A. Smith, Deborah A.
Scheuer, University of Florida, Gainesville,
Program Agenda (continued)

Florida; Urlike M. Steckelings, University of Southern Denmark, Odense, Florida; Eric G. Krause, Colin Sumners, University of Florida, Gainesville, Florida

11:45 Epigenetic Regulation of Brain (Pro)renin Receptor by Benzamil-sensitive Sodium Channel in DOCA-salt Hypertension
Dane D. Jensen, Yumei Feng, University of Nevada School of Medicine, Reno, Nevada

12:00 Impaired Hypothalamic PVN G-alpha i2 Signal Transduction Attenuates Endogenous Sympathoinhibitory PVN GABAergic Tone to Evoke the Development of Salt-sensitive Hypertension
Richard D. Wainford, Joon Shim, Boston University, Boston, Massachusetts

12:15 Brain-targeted Bradykinin B1 Receptor Blockade Prevents DOCA-salt Hypertension by Oxidative Stress and ERK1/2 Phosphorylation Mediated Signaling Mechanisms
Srinivas Sriramula, Eric Lazartigues, LSU Health Sciences Center, New Orleans, Louisiana

11:00 AM
Oral Session 14 Concurrent C Vascular and Neurogenic Mechanisms in Obesity Asia 5

Moderators:
Kamal Rahmouni, University of Iowa, Iowa City, Iowa
Adam C. Straub, University of Pittsburgh, Pittsburgh, Pennsylvania

11:00 Role of Suppressor of Cytokines Signaling 3 (SOCS3) in POMC Neurons in Regulating Metabolic and Cardiovascular Functions in Dietary-Induced Obesity
Zhen Wang, Jussara do Carmo, University of Mississippi Medical Center, Jackson, Mississippi; Alexandre da Silva, Center Universitário Barão de Mauá, Ribeirão Preto, Brazil; Nicola Aberdein, John Hall, University of Mississippi Medical Center, Jackson, Mississippi

11:15 Postnatal Treatment with Metyrapone Attenuates the Effects of Early Life Stress (ELS) on Diet-induced Obesity in Female Rats
Margaret O. Murphy, Dianne M. Cohn, Analia S. Loria, University of Kentucky, Lexington, Kentucky

11:30 Hmox1 Activation Repprograms White Fat to Beige Adipose Tissue Through Recruitment of Cyp2C44-derived EET, pAMPK-PGC1α That Enhances Mitochondrial Mfn2 and Opa1
Nader G. Abraham, Departments of Medicine and Pharmacology, New York Medical College, Valhalla, New York; Shailendra P. Singh, Lars Belner, David Bamshad, George Drummond, Department of Pharmacology, New York Medical College, Valhalla, New York

11:45 mTORC1 as a Novel Regulator of Vascular Endothelial Function in Obese Mice and Humans
John J. Reho, Deng-Fu Guo, Andrew Olson, Lauren Wegman-Points, Isaac Samuel, Peter Nau, Jessica Smith, Gary L. Pierce, Kamal Rahmouni, University of Iowa, Iowa City, Iowa

12:00 Obesity-related Reductions in Cardiac Baroreflex Sensitivity and Higher 24-hour Blood Pressure Variability Are Not Related to Carotid Artery and Aortic Stiffness in Young And Middle-aged Adults
Seth Holwerda, Jess Fiedorowicz, Lyndsey DuBose, Amy Stroud, Tiwa Ajibewa, Jane Persons, Nealy Woolridge, Janie Myers, Gary Pierce, University of Iowa, Iowa City, Iowa

12:15 Chronic Angiotensin-(1-7) Attenuates the Development of Obesity in Mice by Enhancing Energy Expenditure
Amy C. Arnold, Pennsylvania State University College of Medicine, Hershey, Pennsylvania; Charlene Finney, Italo Biaggioni, Vanderbilt University Medical Center, Nashville, Tennessee

12:30–2:00 PM
Annual Business Meeting and Awards Luncheon *Ticketed event.
Southern 3-5

2:00–3:30 PM
Poster Session 3
Northern A 1-4

Posters P298-P364 and P600-P643 will be presented during this session. See pages 35 for details.

3:30–5:00 PM
Oral Session 15

3:30 PM
Oral Session 15 Concurrent A Immune Mechanisms of Hypertension
Northern B-C

Moderators:
David G. Harrison, Vanderbilt University School of Medicine, Nashville, Tennessee
Keisa W. Mathis, University of North Texas, Ft. Worth, Texas

3:30 γδ T Cells Play a Role in Development of Hypertension
Antoine Caillon, Muhammad Oneeb Mian, Julio C. Fraulob-Aquino, Ku-Geng Huo, Tlili Bahrourni, Vascular and Hypertension Research Unit, Lady Davis Institute for Medical Research, SMDB-Jewish General Hospital, McGill University, Montreal, QC, Canada; Peter R. Sinnaeve, University Hospital Leuven, Leuven, Belgium; Christopher B. Granger, Duke University Medical Center and Duke Clinical Research Institute, Durham, North
3:45 Sodium Butyrate and Retinoic Acid Attenuate Renal Inflammation and Fibrosis in Npr1 Gene-targeted Haplotype Mice: Role of NF-κB Signaling
Prerna Kumar, Ramu Periyasamy, Venkateswara Gogulamudi, Kailash N. Pandey, Tulane University Health Sciences Center, School of Medicine, New Orleans, Louisiana

4:00 The Role of CD70 in Vascular Function
Hana A. Itani, Arvind Pandey, Jonathan D. Brown, David G. Harrison, Vanderbilt University, Nashville, Tennessee

4:15 The Angiotensin-(1-7) Mas Receptor Protects Heart and Lung Against Lps-induced Shock in Mice
Daisy Motta-Santos, Onésia Cristina Oliveira-Lima, Giselle Santos Magalhães, Cibele Rocha-Resende, Sergio Scalaio, Marcos Barrouim Melo, Juliana Carvalho-Tavares, UFMG, Belo Horizonte, Brazil; Natalia Alenina, Michael Bader, MDC, Berlin-Buch, Germany; Maria José Campagnole-Santos, Silvia Cristina Fonseca Guatimosim, Robson Augusto Souza dos Santos, UFMG, Belo Horizonte, Brazil

4:30 Mitochondrial Fission Inducer, Dynamin-Related Protein 1 (DRP1), is Required for Endothelial Inflammatory Responses
Steven J. Forrester, Tatsuo Kawai, Katherine J. Elliott, Kunie Eguchi, Victor Rizzo, Satoru Eguchi, Temple University, Philadelphia, Pennsylvania

4:45 Chronic Efferent Vagal Stimulation Enhances Norepinephrine-mediated Inhibition of Splenic Pro-inflammatory Cytokine Release in Lupus Hypertension
Grace S. Pham, Amber S. Fairley, Keisa W. Mathis, University of North Texas Health Science Center, Fort Worth, Texas

3:30 PM
Oral Session 15 Concurrent B Salt and Hypertension Asia 4

Moderators:
Louise C. Evans, Medical College of Wisconsin, Milwaukee, Wisconsin
Pablo A. Ortiz, Henry Ford Hospital, Detroit, Michigan

3:30 Dopamine D2 Receptor is Associated with Inverse Salt Sensitivity
Peng Xu, John J. Gildea, University of Virginia, Charlottesville, Virginia; Pedro A. Jose, George Washington University School of Medicine, Washington, D.C.; Robert M. Carey, Robin A. Felder, University of Virginia, Charlottesville, Virginia

3:45 High-Salt-induced Alterations in Gut Microbiome Composition influence Blood Pressure
Nicola Wilck, Experimental and Clinical Research Center, Berlin, Germany; Scott W. Olesen, Mariana G. Matus, Sean Kearney, Department of Biological Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts; Hendrik Bartolomaeus, Andreas Balogh, Experimental and Clinical Research Center, Berlin, Germany; Olga Vvedenskaya, Max-Debrück Center for Molecular Medicine in the Helmholtz Association, Berlin, Germany; Lajos Marko, Friedrich Kleiner, Experimental and Clinical Research Center, Berlin, Germany; Jens Marc Titze, Division of Clinical Pharmacology, Vanderbilt University Medical Center, Nashville, Tennessee; Markus Kleineuwietfeld, VIB Lab of Translational Immunomodulation, UHasselt, Campus Diepenbeek, Diepenbeek, Belgium; Ralf Dechend, Experimental and Clinical Research Center, Berlin, Germany; Stefan Kempa, Max-Debrück Center for Molecular Medicine in the Helmholtz Association, Berlin, Germany; Eric A. Alm, Department of Biological Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts; Dominik N. Müller, Max-Debrück Center for Molecular Med in the Helmholtz Association, Berlin, Germany

4:00 High Salt Promotes Conversion of Human Monocytes Into Dendritic Cells via Formation of Immunogenic Isoketals
Natalia R. Barbaro, Jason D. Foss, Kim R. Montaniel, Wei Chen, David G. Harrison, Annet Kirabo, Division of Clinical Pharmacology, Department of Medicine, Vanderbilt University Medical Center, Nashville, Tennessee
4:15 Novel Mechanism of Salt-sensitive Hypertension: CD8+ T Cells Stimulate Sodium Chloride Co-transporter NCC in Kidney
Shengyu Mu, Yunmeng Liu, Sung Rhee, Jessica Webber, Beixiang He, Tonya Rafferty, University of Arkansas for Medical Sciences, Little Rock, Arkansas

4:30 Salt-sensitivity, Salt-resistance, and Incidence of Hypertension
Jiang He, Jing Chen, Tulane University New Orleans, Louisiana; Jianfeng Huang, Jichun Chen, Fuwai Hosp, Beijing, China; Hua He, Tulane University, New Orleans, Louisiana; Jianxin Li, Jie Cao, Fuwai Hospital, Beijing, China; Chung-Shuan Chen, Tulane University, New Orleans, Louisiana; Dongfeng Gu, Fuwai Hosp, Beijing, China

3:30 – 5:15 pm

3:30 Ovariectomy Restores Purinergic Receptor Activation of Endothelin-dependent Natriuresis
Eman Y. Gohar, David M. Pollock, University of Alabama at Birmingham, Birmingham, Alabama

3:45 Leptin and High Salt Diet Induce Greater Increases in Blood Pressure in Female than Male Mice
Jessica L. Faulkner, Eric J. Belin de Chantemele, Augusta University, Augusta, Georgia

4:00 Effects of Lysine-specific Demethylase 1 Deficiency on Aldosterone Production and Salt-sensitive Hypertension in Female Mice
Yuefei Huang, Tham M. Yao, Paul Loutraris, Isis K. Rangel, Pei Yee Ting, Jia Wei Tan, Amanda E. Garza, Jose R. Romero, Luminita H. Pojoga, Gail K. Adler, Gordon H. Williams, Brigham and Women’s Hospital an Harvard Medical School, Boston, Massachusetts

4:15 A Novel Mechanism for Buffering Dietary Salt in Humans: Effects of Salt Loading on Skin Sodium, VEGF-C and Blood Pressure
Viknesh Selvarajah, Kaisa Maki-Petaja, Experimental Med & Therapeutics, University of Cambridge, Cambridge, United Kingdom; Liliana Pedro, Sylvaine F. Brugggraber, MRC Human Nutrition Research Unit, Cambridge, United Kingdom; Morris J. Brown, William Harvey Research Institute, Queen Mary, University of London, London, United Kingdom; Carmel M. McEniery, Ian B. Wilkinson, Experimental Med & Therapeutics, University of Cambridge, Cambridge, United Kingdom

4:30 Functional Remodeling of the Renal Vasculature Precedes the Establishment of Salt-sensitive Hypertension in E1n-deficient Mice
Elizabeth A. Owens, Li Jie, Beverly Reyes, Elisabeth J. Van Bockstaele, Patrick Osei-Owusu, Drexel University College of Medicine, Philadelphia, Pennsylvania

4:45 Hip and Pelvic Fracture Risk in Adults Treated with Three Different Classes of Antihypertensive Medications: The ALLHAT Study
Suzanne Oparil, University of Alabama, Birmingham, Alabama; Rachel Puttnam, Kaiser Permanente of Georgia, Duluth, Georgia; Barry Davis, Sara Pressel, University of Texas School of Public Health, Houston, Texas; Paul Whelton, Tulane University School of Public Health, New Orleans, Louisiana; William Cushman, University of Tennessee VA Hospital, Memphis, Tennessee; Gail Louis, Tulane University School of Public Health, New Orleans, Louisiana; Karen Margolis, HealthPartners Institute for Education and Research, Minneapolis, Minnesota; Jeff Williamson, Wake Forest University, Winston Salem, North Carolina; Alokarnada Ghosh, University of Texas School of Public Health, Houston, Texas; Paula Einhorn, NHLBI NIH, Bethesda, Maryland; Joshua Barzilay, Kaiser Permanente of Georgia, Atlanta, Georgia

5:00–5:15 pm Refreshments and Exhibits

Northern D
Program Agenda (continued)

5:15–6:00 PM
Session 16
The Excellence Award for Hypertension Research
Supported by a grant from Novartis Pharmaceutical Corp.
Northern B-C

Moderators:
Gregory Fink, PhD, FAHA, Michigan State University,
East Lansing, Michigan
Christopher Wilcox, MD, PhD, Georgetown University,
Washington, DC

Hormones and the Heart: Promises, Problems and Unresolved Issues
Suzanne Oparil, MD, FAHA, University of Alabama at Birmingham

Fate of Renin Cells During Development and Disease
R. Ariel Gomez, MD, FAHA, University of Virginia School of Medicine

7:30–8:00 PM
The Excellence Award for Hypertension Research Reception
Northern Foyer
Open to all conference attendees

8:00–10:00 PM
The Excellence Award for Hypertension Research Dinner
Southern Ballroom 3-5
*Ticketed event.

SATURDAY, SEPTEMBER 17

7:00 AM
Registration Opens
Northern D

7:00 AM
Refreshments
Northern D

8:00–10:00 AM
Oral Session 17

8:00 AM
The Lewis K. Dahl Memorial Lecture
Northern B-C

8:00
New Insights Into the Physiological Function of Renal (Pro)Renin Receptor
Tianxin Yang, MD, PhD, FAHA, University of Utah

8:30 AM
Oral Session 17 Concurrent A
Renal Hemodynamic and Tubular Mechanisms of Hypertension
Northern B-C

Moderators:
Ravi Nistala, University of Missouri-Columbia, Columbia, Missouri
William J. Welch, Georgetown University, Washington, D.C.

8:30
Alms1 (Alstrom Syndrome 1), a Novel Gene Involved in Blood Pressure Regulation, Renal Na Handling and Thick Ascending Limb (TAL) Function
Ankita Bachhawat Jaykumar, Wayne State University/Henry Ford Hospital, Detroit, Michigan; Pablo Caceres, Gustavo Ares, Henry Ford Hospital, Detroit, Michigan; William H. Beierwaltes, Wayne State University/Henry Ford Hospital, Detroit, Michigan; Pablo A. Ortiz, Wayne State University/Henry Ford Hospital, Detroit, Michigan

8:45
Role of Renal Tubular NHE3 for Blood Pressure and Salt Homeostasis
Timo Rieg, University of California-San Diego and VASDHS, San Diego, California; Soren B. Poulsen, Aarhus University and VASDHS, San Diego, California; Jessica A. Dominguez Rieg, Bastyr University and VASDHS, San Diego, California; Robert A. Fenton, Aarhus Univ, Aarhus, Denmark

9:00 Soluble (Pro)Renin Receptor Targets Renal V2 Vasopressin Receptor to Enhance Urine Concentrating Capability
Fei Wang, Zhongshan School of Medicine, Sun Yat-sen Univ, Guangzhou, China; Nirupama Ramkumar, Kexin Peng, University of Utah, Salt Lake City, Utah; Xiaohan Lu, Zhongshan School of Medicine, Sun Yat-sen University, Guangzhou, China; Long Zhao, Donald E. Kohan, Univ of Utah, Salt Lake City, UT; Tianxin Yang, Zhongshan School of Medicine, Sun Yat-sen University, Guangzhou, China

9:15 Dynamic Autoregulation of Glomerular Capillary Pressure
Scott C. Thomson, University of California and VAMC, San Diego, California

9:30
Maternal Diet Leads to Nephron Count Differences After Postnatal Day 14 and Time-dependent Differences in Apoptosis and Unfolded Protein Response in Dahl Salt-sensitive Rats
Erwin T. Cabacungan, Pediatrics, Medical Coll of Wisconsin, Milwaukee, Wisconsin; Aron M. Geurts, David L. Mattson, Liang Mingyu, Center of Systems Molecular Medicin, Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin

Next year’s conference: Sept. 13–16, 2017 … visit professional.heart.org for more information.
9:45 Signaling Mechanisms Affecting Nitric Oxide Production in Glomerular Podocytes
Oleg Palygin, Daria V. Ilstovskaya, Vladislav Levchenko, Bradley T. Endres, Aron M. Geurts, Alexander Staruschenko, Medical Coll of Wisconsin, Milwaukee, Wisconsin

8:30 AM Oral Session 17 Concurrent B
The Vasculature in Health and Disease
Asia 4

Moderators:
Augusto C. Montezano, Institute of Cardiovascular and Medical Sciences, Glasgow, United Kingdom
Michal Schwartzman, New York Medical College, Valhalla, New York

8:30 Mir-431 as a Potential Master Regulator in Angiotensin II-induced Vascular Injury
Kugeng Huo, Tili Barhoumi, Julio C. Fraulob-Aquino, Lady Davis Inst of the Jewish General Hosp, Montreal, QC, Canada; Chantal Richer, Mathieu Lajoie, Daniel Sinnett, Div of Hematology-Oncology, Research Center, CHU Ste-Justine, Montreal, QC, Canada; Pierre Paradis, Ernesto L. Schiffrin, Lady Davis Institute of the Jewish General Hosp, Montreal, QC, Canada

8:45 Relative Contributions of Arterial Stiffness and Hypertension to CVD Risk: The Framingham Heart Study
Teemu J. Niiranen, The Framingham Heart Study, Framingham, Massachusetts; Bindu Kalesan, Naomi M. Hamburg, Boston University School of Medicine, Boston, Massachusetts; Emelia J. Benjamin, The Framingham Heart Study, Framingham, Massachusetts; Gary F. Mitchell, Cardiovascular Engineering, Inc., Norwood, Massachusetts; Ramachandran S. Vasan, The Framingham Heart Study, Framingham, Massachusetts

9:00 Association of Endothelial Dysfunction with Non-invasive Measures of Vascular Stiffness in Young-middle Aged Non-hypertensive Individuals
Cynthia Cheng, Thomas Jefferson Univ, Philadelphia, PA; Raymond Townsend, Julio A. Chirinos, Univ of Pennsylvania, Philadelphia, PA; Scott Keith, Thomas Jefferson Univ, Philadelphia, PA

9:15 Vascular Smooth Muscle Sirtuin-1 Protects Against Diet-Induced Aortic Stiffness
Jessica Fry, Leona Al Sayah, Robert Weisbrod, Isabelle Van Roy, Xiang Wang, Richard Cohen, Markus Bachschmid, Francesca Seta, Boston University School of Medicine, Boston, Massachusetts

9:45 The 20-HETE Receptor: a New Player in Hypertension
Victor Garcia, Ankit Gilani, Brian Shkolnik, New York Medical College, Valhalla, New York; John R. Falcik, University of Texas Southwestern, Dallas, Texas; Varun Pandey, New York Medical Coll, Valhalla, NY; Jorge H. Capdevila, Vanderbilt University, Nashville, Tennessee; Michal L. Schwartzman, New York Medical College, Valhalla, New York

8:30 AM Oral Session 17 Concurrent C
Therapeutics and Clinical Trials
Asia 5

Moderators:
Italo Biaggioni, Vanderbilt University, Nashville, Tennessee
Fernando Eljovich, Vanderbilt University School of Medicine, Nashville, Tennessee

8:30 Ambulatory Blood Pressure in Hypertensive Patients with Inclusion Criteria for the SPRINT Trial
Alejandro De La Sierra, Hosp Mutua Terrassa, Terrassa, Spain; Jose R. Banegas, MD, Univ Autonoma, Madrid, Spain; Juan A. Divison, Cap Casas Ibañez, Albacete, Spain; Manuel Gorostidi, Hosp Central Asturias, Oviedo, Spain; Ernest Vinyoles, Cap La Mina, Barcelona, Spain; Juan J De La Cruz, Univ Autonoma, Madrid, Spain; Julian Segura, Luis M. Rulope, Hosp 12 De Octubre, Madrid, Spain

8:45 Renal Denervation Reduces Monocyte Activation: An Anti-inflammatory Effect Relevant for Cardiovascular Risk
Maria Teresa Kristina Zaldivia, Jennifer Rivera, Baker IDI Heart and Diabetes Institute, Melbourne, Australia; Dagmar Hering, Petra Marusic, Petra Marusic, Dobney Hypertension Center, School of Medicine and Pharmacology-Royal Perth Hospital Unit, University of Western Australia, Perth, Australia; Yusuke Sata, Nina Eikelis, Rebecca Lee, Gavin W. Lambert, Nay M. Htun, Jacqueline Duval, Louise Hammond, Steffen Eisenhardt, Ulrike Flierl, Baker IDI Heart and Diabetes Inst, Melbourne, Australia; Markus Schlaich, Dobney Hypertension Center, School of Medicine and Pharmacology-Royal Perth Hospital Unit, University of Western Australia, Perth, Australia; Karlheinze Peter, Baker IDI Heart and Diabetes Institute, Melbourne, Australia

30 Become an AHA/ASA Professional Member and save up to $300 off next year’s registration.
9:00 Blood Pressure Trajectories in the Acute Phase And Major Clinical Outcomes Among Patients With Ischemic Stroke
Changwei Li, Dept of Epidemiology, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana; Yonghong Zhang, Department of Epidemiology, Sch of Public Health, Medical College of Soochow University, Suzhou, China; Jing Chen, Department of Medicine, Tulane University School of Medicine, New Orleans, Louisiana; Tan Xu, Department of Epidemiology, School of Public Health, Medical College of Soochow University, Suzhou, China; Dali Wang, Dept of Neurology, Affiliated Hospital of Hebei United University, Hebei, China; Chung-Shiuan Chen, Dept of Epidemiology, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana; Yingxian Sun, Department of Cardiology, the First Affiliated Hosp of China Medical Univ, Liaoning, China; Hao Peng, Department of Epidemiology, School of Public Health, Medical College of Soochow Univ; Dept of Epidemiology, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana; Jiang He, Dept of Epidemiology, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana

9:15 The Effect of a Practice-based Multi-component Intervention That Includes Health Coaching on Medication Adherence and Blood Pressure Control in Rural Primary Care
Jia-Rong Wu, University of North Carolina-Chapel Hill, Chapel Hill, North Carolina; Doyle M. Cummings, East Carolina University, Greenville, North Carolina; Quefeng Li, Jiacque Halladay, Katrina Donahue, Crystal Cane, Alan Hinderliter, University of North Carolina-Chapel Hill, Chapel Hill, North Carolina; Hayden Bosworth, Duke University, Durham, North Carolina; Cassandra Miller, Beverly Garcia, University of North Carolina-Chapel Hill, Chapel Hill, North Carolina; Jim Tillman, East Carolina University, Greenville, North Carolina; Darren DeWalt, University of North Carolina-Chapel Hill, Chapel Hill, North Carolina

9:30 Preclinical Target Organ Damage Changes in Patients with Resistant Hypertension Randomized to Renal Denervation or Spironolactone as Add-on Therapy. Results From the DENERVHTA Study
Anna Oliveras, Hosp del Mar, Barcelona, Spain; Pedro Armario, Moisés Broggi, Consorci Sanitari Integral, Univ of Barcelona, Sant Joan Despi, Spain; Laia Sans, Albert Clarà, Susana Vázquez, Lluís Molina, Hosp del Mar, Barcelona, Spain; Júlia Pareja, Hosp Mutua de Terrassa, Terrassa, Spain; Julio Pascual, Hosp del Mar, Barcelona, Spain; Alejandro de la Sierra, Hosp Mutua de Terrassa, Terrassa, Spain

9:45 Nebivolol Therapy Enhances Endothelial Fibrinolytic Capacity in Adults with Elevated Blood Pressure
Christopher A. DeSouza, Tyler D. Bammert.
Kyle J. Diehl, Caitlin A. Dow, Jared J. Greiner, University of Colorado Boulder, Boulder, Colorado; Brian L. Stauffer, University of Colorado School of Medicine, Aurora, Colorado

10:00–10:30 AM Refreshment Break
Northern D

10:30 AM–12:00 PM Oral Session 18

10:30 Oral Session 18 Concurrent A Salt Sensitive Hypertension
Northern B-C

Moderators:
Allen W. Cowley Jr., Medical College of Wisconsin, Milwaukee, WI
Pedro Jose, Georgetown University, Washington, DC

10:30 Anti-hypertensive Effect of Thiazides Shifts from Salt Excretion to Vasorelaxation During Salt Restriction or Volume Depletion Saeed Alshahrani, Kamyar Zahedi, Min Jiang, Michelle Nieman, Sharon Barone, John Lorenz, Jack Rubinstein, Manoover Soleimani, University of Cincinnati, Cincinnati, Ohio

10:45 Reversal of Hypertension Stops, but Does Not Reverse, Renal T-cell Infiltration in the Dahl Salt-sensitive Rat
Louise C. Evans, Galina Petrova, Theresa Kurth, David L. Mattson, Allen W. Cowley Jr., Medical College of Wisconsin, Milwaukee, Wisconsin

11:00 Afferent Renal Nerve Chemo- and Mechanosensitive Responses and the Modulation of Sodium Homeostasis and Blood Pressure
Alissa A. Frame, Casey Y. Carmichael, Kathryn R. Walsh, Richard D. Wainford, Boston University, Boston, Massachusetts

11:15 TNF Production Derived From the Thick Ascending Limb Modulates the Renal Adaptive Response to High NaCl Intake Nicholas R. Ferreri, Mary Hao, New York Medical College, Valhalla, New York; Sergei Nedsopasov, Russian Acad of Science, Moscow, Russian Federation; Shoujin Hao, New York Medical College, Valhalla, New York

11:30 A Fructose-enriched Diet Stimulates Superoxide Production in Juxtaglomerular Cells and Prevents High-salt Induced Inhibition of Plasma Renin Activity (PRA)
Mariela Mendez, Kevin L. Gordish, Emily Henson, Pablo A. Ortiz, William H. Beierwaltes, Henry Ford Hospital, Detroit, Michigan
Program Agenda (continued)

11:45  Soluble (Pro)Renin Receptor Regulation of ENaC in Angiotsin II Signaling in the Collecting Duct  
Fei Wang, Xiaohan Lu, Chuanming Xu, Kexin Peng, Tianxin Yang, University of Utah, Salt Lake City, Utah

11:00  Enhanced Endothelial Mineralocorticoid Receptor Signaling Prompts Vascular Inflammation and Stiffness Through MiRNA-103-mediated Suppression of KLF4  
Guanghong Jia, University of Missouri, Columbia, Missouri; Javad Habibi, Annayya R. Aroor, Zhe Sun, Vincent G. DeMarco, Gerald A. Meining, University of Missouri School of Medicine, Columbia, Missouri; Iris Z. Jaffe, Tufts Medical Center, Boston, Massachusetts; James R. Sowers, University of Missouri School of Medicine, Columbia, Missouri

10:30 AM  Oral 18 Concurrent B  
Aldosterone  
Asia 4

Moderators:
Robert Hoover Jr., Emory University, Atlanta, Georgia; Sadayoshi Ito, Tohoku University Graduate School of Medicine, Sendai, Japan

10:30  Interleukin 6 Activates the Mineralocorticoid Receptor via Rac1, Increasing Sodium Chloride Cotransporter Expression and Activity  
Brandi M. Wynne, Emory University, Atlanta, Georgia; Henrieke J. van Elst, Radboud University, Nijmegen, Netherlands; Trinity A. Kronk, Gillian Hecht, Otor Al-Khallili, Emory University, Atlanta, Georgia; Benjamin Ko, University of Chicago, Chicago, Illinois; Douglas C. Eaton, Robert S. Hoover, Emory University, Atlanta, Georgia

10:45  The Novel Quick, Accurate and Sensitive Measurement of Plasma Aldosterone and Active Renin Concentrations Will Be Beneficial for Diagnosing Primary Aldosteronism and for Drug Selection  
Fumitoshi Satoh, Division of Clinical Hypertension, Endocrinology & Metabolism, Tohoku University Graduate School of Medicine, Sendai, Japan; Ryo Morimoto, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Yoshikyo Ono, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Yoshitsugu Iwakura, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Masahiro Nezu, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Kii Omata, Yuta Tetzuka, Division of Clinical Hypertension, Endocrinology & Metabolism, Tohoku University Graduate School of Medicine, Sendai, Japan; Yasuhiro Igarashi, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Masataka Kudo, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Celso E. Gomez-Sanchez, Division of Endocrinology, University of Mississippi Medical Center, Jackson, Mississippi; Sadayoshi Ito, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Kei Omata, Yuta Tetzuka, Division of Clinical Hypertension, Endocrinology & Metabolism, Tohoku University Graduate School of Medicine, Sendai, Japan; Yasuhiro Igarashi, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Masataka Kudo, Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Hospital, Sendai, Japan; Celso E. Gomez-Sanchez, Division of Endocrinology, University of Mississippi Medical Center, Jackson, Mississippi; Sadayoshi Ito,

11:15  Leptin: A Regulator of Aldosterone Synthase Expression and Aldosterone Secretion in Visceral Adipocytes, in Mice  
Eric J. Belin de Chantemele, Anne-Cecile Huby, P. Thomas Menk, Weiqin Chen, Brian Lane, Galina Antonova, Medical College of Georgia at Augusta University, Augusta, Georgia

11:30  The Role of Intron-2 Conversion Polymorphism in the Regulation of Human Aldosterone Synthase Gene Expression  
Brahmaraju Mopidevi, Sravankumar Perla, Indu Sivankutty, Ashok Kumar, University of Toledo, Toledo, Ohio

11:45  Modulation of Salt and Mineralocorticoid Sensitivity of Blood Pressure by the Circadian Clock Protein Per1  
Kristen Solocinski, Xuerong Wen, Kit-Yan Cheng, Jeanette Lynch, Brian D. Cain, Charles S. Wingo, Michelle L. Gumz, University of Florida, Gainesville, Florida

10:30 AM  Oral 18 Concurrent C  
Developmental Programming and Pregnancy Induced Hypertension  
Asia 5

Moderators:
F. Javier Salazar Sr., University of Murcia, Murcia, Spain; Mark Santillian, University of Iowa, Carver College of Medicine, Iowa City, Iowa

10:30  Quantification of in vivo Placental Oxygenation Using Ultrasound-guided Spectral Photoacoustic Imaging  
Carolyn Bayer, Tulane University, New Orleans, Louisiana; Geoffrey P. Luke, Dartmouth University, Hanover, New Hampshire; Jason R. Cook, University of Texas at Austin, Austin, Texas; Stanislav Y. Emelianov, Georgia Institute of Technology, Atlanta, Georgia

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Program Agenda (continued)

10:45 Adrenergic Receptor Blockade Prevents Placental Ischemia-induced Hypertension
Frank T. Spradley, Joey P. Granger, University of Mississippi Medical Center, Jackson, Mississippi

11:00 Depletion of Natural Killer Cell Activation in Response to Placental Ischemia Improves Hypertension and Intrauterine Growth Restriction During Pregnancy
Denise C. Cornelius, Jamil Elfarra, Lorena M. Amaral, Maggie McCalmon, Mark W. Cunningham Jr., Tarek Ibrahim, Jeremy D. Scott, Babbette LaMarca, University of Mississippi Medical Center, Jackson, Mississippi

11:15 Association Between Kidney Size, Function and Blood Pressure in Young Adults Born Extremely Preterm
Katryn Paquette, Thuy Mai LUU, Anik Cloutier, Marie-Amélie Lukaszewski, Mariane Bertagnolli, Dept of Pediatrics, Sainte-Justine University Hospital and Research Center, University of Montreal, Montreal, QC, Canada; Ramy El-Jalbout, Department of Medical Imaging, Sainte-Justine University Hospital and Research Center, University of Montreal, Montreal, QC, Canada; Anne-Laure Lapeyraque, Anne-Monique Nuyt, Department of Pediatrics, Sainte-Justine University Hospital and Research Center, University of Montreal, Montreal, QC, Canada

11:30 Influence of Race and Obesity on the Renin-Angiotensin-Aldosterone System in Adolescents Born Preterm
Andrew M. South, Wake Forest School of Medicine, Winston-Salem, North Carolina; Patricia A. Nixon, Wake Forest University, Winston-Salem, North Carolina; Mark C. Chappell, Debra I. Diz, Gregory B. Russell, Beverly M. Snively, Hossam A. Shaltout, James C. Rose, Wake Forest School of Medicine, Winston-Salem, North Carolina; T. Michael O'Shea, University of North Carolina School of Medicine, Chapel Hill, North Carolina; Lisa K. Washburn, Wake Forest School of Medicine, Winston-Salem, North Carolina

11:45 Obesity Accelerates the Deterioration of Renal Function in Developmental Programming of Hypertension. Role of Angiotensin II and Oxidative Stress
Antonio Tapia, Juan M. Moreno, Maria T. Llinas, F. Javier Salazar Sr., University of Murcia, Murcia, Spain

12:00 Adjourn

Council on Hypertension
Scientific Sessions 2017
September 13-16, 2017 | Hyatt Regency San Francisco | San Francisco, Calif.

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Poster Presentations

Poster Session Schedule
All poster presentations take place in Northern A 1-4

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<td>Session 3</td>
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Wednesday, September 14, 7:00–9:00 PM
Poster Session 1, Trainee Onsite Poster Competition
Abstracts P100–P232 will be presented in this session

Poster Session Chairs:
Augusto C. Montezano, Institute of Cardiovascular and Medical Sciences, Glasgow, United Kingdom
Brandi M. Wynne, Emory, Atlanta, Georgia
Fouad Zouein, Univ of Mississippi Medical Center, Ridgeland, Mississippi
Praveen Veerabhadrappa, Penn State Berks, Reading, Pennsylvania
Dylan Burger, Kidney Research Center, Ottawa, Ontario, Canada
Richard D. Wainford, Boston University, Boston, Massachusetts

Thursday, September 15, 1:00–2:30 PM
Poster Session 2
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<td>Oscar A. Carretero, Henry Ford Hosp, Detroit, MI</td>
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<td>Cerebrovascular Disease and Stroke</td>
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<td>TBD</td>
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<td>Clinical Hypertension and Blood Pressure Monitoring</td>
<td>P247–P257</td>
<td>Donald DiPette, University of South Carolina, Columbia, South Carolina</td>
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<td>Epidemiology</td>
<td>P258-P262</td>
<td>Theodore A. Kotchen, Medical College of Wisconsin, Milwaukee, WI</td>
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<td>Genetics and Epigenetics</td>
<td>P263–P264</td>
<td>Bina Joe, University of Toledo, Toledo, OH</td>
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<td>Michael W. Brands, Medical College of Georgia, Augusta, GA</td>
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<td>David Robertson, Vanderbilt University, Nashville, TN</td>
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<td>Cheryl L Laffer, Vanderbilt University School of Medicine, Nashville, TN</td>
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<td>A. H. J. Danser, Erasmus MC, Rotterdam, Netherlands</td>
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<td>Rhian Touyz, Institute of Cardiovascular and Medical Sciences, Glasgow, United Kingdom</td>
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Note: Posters are not always listed in numerical order due to changes requested by the presenter.
Poster Presentations (continued)

Friday, September 16, 2:00-3:30 PM
Poster Session 3

Note: Posters are not always listed in numerical order due to changes requested by the presenter.

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*Strategically Focused Research Network Poster Session
This special poster session will highlight research from AHA’s Strategically Focused Hypertension Network. The four (4) centers focus on different areas of Hypertension Research from epigenomics of hypertension; abnormal diurnal rhythm of blood pressure; organ damage in hypertensive youth; and preeclampsia.
Poster Presentations (continued)

P100 Interaction of the Mineralocorticoid Receptor with RACK1
Maniselvan Kuppusamy, Elise P. Gomez-Sanchez, Celso E. Gomez-Sanchez, University of Mississippi Medical Center, Jackson, Mississippi

P101 Assisted Reproductive Technologies Increase the Vasoconstrictor Responsiveness to Angiotensin II by an Epigenetic Mechanism
Theo A. Meister, Rodrigo Soria, Emrush Rexhaj, University Hospital of Bern, Bern, Switzerland; Ludwig Stenz, Ariane Paolini-Giacobino, University Hospital of Geneva, Geneva, Switzerland; Afzal Dogar, University Hospital of Bern, Bern, Switzerland; Claudio Sartori, University Hospital of Lausanne, Lausanne, Switzerland; Urs Scherrer, Stefano F. Rimoldi, University Hospital of Bern, Bern, Switzerland

P102 Differences in Angiotensin-(1-7)/alaminandine-mediated Signaling in Tumoral and Normal Cell Lines
Walkyria O. Sampaio, Marilene Luzia Oliveira, Felipe A. Silva, Leticia B. Silva, Gisele M. Etelvino, Danielle G. Passos-Silva, Robson A. Santos, Federal Univ of Minas Gerais, Belo Horizonte, Brazil

P103 Role of Adenosine Receptors in Angiotensin II Dependent Hypertension in Mice
Vishal R. Yadav, Zhichao Zhou, Bunyong Tang, S. Jamal Mustafa, West Virginia University, Morgantown, West Virginia

P104 Greater 24 Hour Blood Pressure Variability is Associated With Higher 24 Hour Systolic Blood Pressure and Glucose Independent of Age and Large Elastic Artery Stiffness in Normotensive Adults
Lyndsey E. DuBose, Seth W. Holwerda, Amy K. Stroud, Nealy A. Wooldridge, Janie E. Myers, Kaitlyn M. Dubishar, Gary L. Pierce, University of Iowa, Iowa City, Iowa

P105 Effects of Aldosterone Excess and Sodium on Dipping Patterns in Resistant Hypertensive Patients
Charles German, University of Alabama at Birmingham, Birmingham, Alabama

P106 Hypertension Enhances the Differentiation of Cardiac Fibroblasts Into Myofibroblasts After TGF-beta1 Treatment
Gianluca L. Perrucci, University of Milan, Milan, Italy; Maria Corliànò, Ctr Cardiologico Monzino, Milan, Italy; Delfina Tosi, University of Milan, Milan, Italy; Patrizia Nigro, Ctr Cardiologico Monzino, Milan, Italy; Gaetano Bifulamante, University of Milan, Milan, Italy; Giulio Pompolio, Ctr Cardiologico Monzino, Milan, Italy; Federico Lombardi, University of Milan, Milan, Italy

P107 Circulating Matrix Metalloproteinase-2 Invades the Heart and Causes Heart Failure
Alejandro F. Prado Sr., Coordination of Earth Science and Ecology, Museum Paraense Emilio Goeldi, Belém, Brazil; Aline Azevedo, Department of Biomechanics, Medicine and Rehabilitation of the Locomotor System, Ribeirao Preto Medical School, University of São Paulo, Ribeirao Preto, Brazil; Cibele M. Prado, Department of Pathology, Ribeirao Preto Medical School, University of São Paulo, Ribeirao Preto, Brazil; Larissa Pernomian, Dept of Physics and Chemistry, Faculty of Pharmaceutical Sciences from Ribeirao Preto, University of São Paulo, Ribeirao Preto, Brazil; Laena Pernomian, Dept of Physics and Chemistry, Faculty of Pharmaceutical Sciences from Ribeirao Preto, Univ of São Paulo, Belem, Brazil; Elen Rizzi, Department of Pharmacology, Ribeirao Preto Medical School, University of São Paulo, Ribeirao Preto, Brazil; Myrella L. Castro, Department of Morphology, Physiology and Basic Pathology, Faculty of Dentistry of Ribeirao Preto, Ribeirao Preto, Brazil; Jose E. Tanus-Santos, Department of Pharmacology, Ribeirao Preto Medical School, University of São Paulo, Ribeirao Preto, Brazil; Raquel F. Gerlach, Department of Morphology, Physiology and Basic Pathology, Faculty of Dentistry of Ribeirao Preto, Ribeirao Preto, Brazil

P108 Spiny Mice Are Protected From Myocardial Infarction Induced Cardiac Pathophysiology
YanFei Qi, University of Florida, Gainesville, Florida; Juan Zhang, The First Affiliated Hospital of Soochow University, Soochow City, China; Lei Wang, Ashok Kumar, Avinash Mandloi, Ravneet Vohra, Glenn A. Walter, Joshua F. Yarrow, Dipankar Gupta, Michael J. Katovich, Mohan K. Raizada, Carl J. Pepine, University of Florida, Gainesville, Florida

P109 Low Dose Minocycline Lowers BP and Improves Inflammatory Status in Patients with Treatment Resistant Hypertension
YanFei Qi, Seungbum Kim, Dana D. Leach, Sarah J. Long, Eileen Mary Handberg, Vermali Rodriguez, Avinash Mandloi, Mohan K. Raizada, Carl J. Pepine, University of Florida, Gainesville, Florida

P110 Inhibition of Mitochondrial Fission Enhances Cardiac Angiogenic Responses After Ischemic Reperfusion Injury: Implications for Post-transcriptional Regulatory Mechanisms
Sudhakar Veeranki, Suresh C. Tyagi, University of Kentucky, Lexington, Kentucky

P111 Decreased α-Myosin Expression is Associated with Left Ventricular Hypertrophy in Hypertensive Caribbean Vervets
Chelsea C. Weaver, Anthony Gutierrez, Jeffrey L. Osborn, University of Kentucky, Lexington, Kentucky

P112 Cardiac and Renal Adrenergic Receptor Expression in Spontaneously Hypertensive Caribbean Vervets
Megan K. Rhoads, Jeffrey L. Osborn, University of Kentucky, Lexington, Kentucky
P117 A Conserved Trans-membrane Domain Lysine in the Integrin Beta1 Subunit Regulates Renal Collecting Duct Cell Function
Sijo Matthew, Vanderbilt Univ Medical Center, Nashville, Tennessee; Jiawen Chen, Zhenwei Lu, Charles Sanders, Vanderbilt University Nashville, Tennessee; Roy Zent, Vanderbilt University Medical Center, Nashville, Tennessee

P118 The Complexity of the Albuminuria Development in Salt-sensitive Hypertension
Bradley T. Endres, Medical College of Wisconsin, Milwaukee, Wisconsin; Ruben M. Sandoval, George J. Rhodes, Silvia B. Campos-Bilderback, Malgorzata M. Kamocka, Indiana University School of Medicine, Indianapolis, Indiana; Christopher McDermit-Roe, Alexander Starchenko, Medical College of Wisconsin, Milwaukee, Wisconsin; Bruce A. Molitoris, Indiana University School of Medicine, Indianapolis, Indiana; Aron M. Geurts, Oleg Paligyn, Medical College of Wisconsin, Milwaukee, Wisconsin

P119 Association Between Inspiratory Muscle Strength and Sympathetic Cardiac Modulation and Baroreflex in Patients With End Stage Renal Disease Undergoing Hemodialysis
Kátia B. Scapini, Silvia B. Souza, Valéria C. Hong, Oscar A. Moraes, Jacqueline F. Machi, Heart Institute (InCor), University of São Paulo, Medical School, São Paulo, Brazil; Cristiano T. Mostarda, Federal University of Maranhão, São Luiz, Brazil; Fernando M. Consolin-Colombo, Maria C. Irigoyen, Heart Inst (InCor), University of São Paulo, Medical School, São Paulo, Brazil

P120 Exercise in Patients With Chronic Kidney Disease on Hemodialysis: Systematic Review and Network Meta-analysis of Randomized Clinical Trials
Kátia B. Scapini, Oscar A. Moraes, Heart Institute (InCor), University of São Paulo, Medical School, São Paulo, Brazil; Graciele Sbruzzi, University Federal do Rio Grande do Sul, Escola Superior de Educação Física, Dept de Educação Física, Porto Alegre, Brazil; José F. Inácio, Inst of Cardiologia do Rio Grande do Sul, Porto Alegre, Brazil; Clarissa G. Rodrigues, Inst of Cardiologia do RS / Fundação Universitária de Cardiologia, IC/FUC, Programa de Pós-Graduação, Porto Alegre, Brazil; Camila P. Leguisamo, University of Passo Fundo, FEFF, Passo Fundo, Brazil; Hugo Tourinho Filho, Univ of São Paulo, Escola de Educação Física e Esporte (EEFERP), Ribeirão Preto, Brazil; Maristela Bühlke, Univ Católica de Pelotas, Hosp Universitário São Francisco de Paula, Pelotas, Brazil; Maria C. Irigoyen, Heart Institute (InCor), University of São Paulo, Medical School, São Paulo, Brazil

P121 Antenatal Corticosteroids and Alterations in Renal Function in Adolescents Born Preterm
Andrew M. South, Wake Forest School of Medicine, Winston-Salem, North Carolina; Patricia A. Nixon, Wake Forest University, Winston-Salem, North Carolina; Mark C. Chappell, Debra I. Diz, Gregory B. Russel, Beverly M. Snively, Hossam A. Shalhout, James C. Rose, T. Michael O'Shea, Lisa K. Washburn, Wake Forest School of Medicine, Winston-Salem, North Carolina

P122 Higher Systemic Vascular Resistance Impairs Hypertension Control
Bashar S. Amr, Albert Botchway, Lowell Hedquist, John M. Flack, Southern Illinois University, Illinois

P123 Prevention of Angiotensin Converting Enzyme Inhibitor-induced Cough and Impact on the Quality of Life of Hypertensive Patients in a Tertiary Health Institution in Nigeria: A Pilot Study
Chinwe E. Eze, Anuoluwope D. Ololodi, University of Lagos, Lagos, Nigeria

P124 “Beyond Silos” Model of Homecare Improves Blood Pressure Control in Multimorbic Hypertensive Patients
Antoniella Valeria Pascale, University of Salerno, Baronissi, Italy; Rosa Finelli, MD, AOU San Giovanni e Ruggi, University of Salerno, Baronissi, Italy; Rocco Giannotti, Valeria Visco, Ida Matula, Univ of Salerno, Baronissi, Italy; Giuseppe Vairo, Magadi Home, Salerno, Italy; Michele Ciccarelli, University of Salerno, Baronissi, Italy; Enrico Coscioni, AOU San Giovanni e Ruggi, Univ of Salerno, Salerno, Italy; Guido Iaccarino, Univ of Salerno, Baronissi, Italy

P125 Performance of Ambulatory Blood Pressure Monitoring in Predicting Autonomic Dysfunction
Abhilash Koratala, Kawther F. Alqudah, Abutaleb A. Ejaz, University of Florida, Gainesville, Florida

P126 PI3 Kinase Regulation is Independent of Changes in Associated Phosphatases in Adult Female Sheep with Fetal Betamethasone Exposure
Alexa Hendrickx, Hossam A. Shalhout, Mark C. Chappell, Debra I. Diz, Wake Forest School of Medicine, Winston-Salem, North Carolina

P127 EET-mediated Recruitment of PGC-1α, Restores Mitochondrial Function, LV Function, and Ameliorates Development of Cardiovascular Disease in Db Mice That is Reversed by Lentiviral- PGC-1α (Sh)
Lars Bellner, New York Medical College, Valhalla, New York; Jian Cao, Chinese PLA General Hospital, Beijing, China; Gregory Joseph, Joseph Schrager, Shailendra P. Singh, New York Medical College, Valhalla, New York; Attallah Kappas, Rockefeller University, New York, New York; Nader Abraham, New York Medical College, Valhalla, New York

P128 Enhanced NOS1β in the Macula Densa Contributes to the Diabetic Hyperfiltration
Jin Wei, Jie Zhang, Gensheng Zhang, Lei Wang, Shaohui Wang, Ruiheng Liu, University of South Florida, Tampa, Florida; Jacentha Buggs, Tampa General Hospital, Tampa, Florida
**Poster Presentations (continued)**

P129  **The High Blood Pressure-Malaria Protection Hypothesis**  
Julio Gallego-Delgado, NYU SoM, New York, New York; Thomas Walther, School of Medicine University Coll Cork, Cork, Ireland; Anna Rodriguez, NYU SoM, New York, New York

P130  **Association Between PFOA, PFOS and Obesity Among Children in a Nationally Representative Sample**  
Sarah D. Geiger, Ping Yao, Elizabeth Rogers, Northern Illinois University, DeKalb, Illinois; Michael Vaughn, Zhengmin Qian, St. Louis University, St. Louis, Missouri

P132  **Role of NO/NOS System in Blood Pressure Regulation in Postmenopausal Female SHR with Hormone Replacement Therapy**  
Carolina Dalmasso, Rodrigo O. Maranon, Chetan N. Patil, Licy L. Yanes-Cardozo, Jane F. Reckelhoff, University of Mississippi Medical Center, Jackson, Mississippi

P133  **Melanocortin 4 Receptor is Required for the Effect of Testosterone Supplement on Metabolic Parameters and Blood Pressure**  
Rodrigo O. Maranon, Carolina Dalmasso, Frank T. Spradley, Joey P. Granger, Luis A. Juncos, Jane F. Reckelhoff, University of Mississippi Medical Center, Jackson, Mississippi

P134  **Hypertension in Postmenopausal Women: Role of Renin-angiotensin System and Eicosanoids**  
Chetan N. Patil, Carolina Dalmasso, Rodrigo O. Maranon, Licy L. Yanes-Cardozo, Jane F. Reckelhoff, University of Mississippi Medical Center, Jackson, Mississippi

P135  **2-methoxyestradiol Minimizes Angiotensin II-induced Hypertension and Renal Dysfunction in Ovariectomized Female and Intact Male Mice**  
Ajeeth K Pingili, Shyamala Thirunavukkarasu, Nayaab S. Khan, University of Tennessee Health Science Center, Memphis, Tennessee; Akemi Katsurada, Dewan S. Majid, Gabriel L. Navar, Tulane University, School of Medicine, New Orleans, Louisiana; Kafait U. Malik, University of Tennessee Health Science Center, Memphis, Tennessee

P136  **Dietary Salt and Non-Salt Components Have Substantial Effects on Genome-Wide DNA Methylation Patterns in Dahl SS Rats**  

P137  **Mir-122 is Associated With Stress-response Protein, Hemeoxygenase-1, for Regulation of Extracellular Matrix Remodeling in Renal Hypertension**  
Biswa P. Das Purkayastha, Lu Ren, Sathnur Pushpakumar, Utpal Sen, University of Louisville, Louisville, Kentucky

P138  **Targeted Disruption of Regulated Endocrine Specific Protein (Resp18) in Dahl SS Rats Increases Blood Pressure and Renal Injury**  
Sivarajan Kumarasamy, Harshal Waghule, Center for Hypertension and Personalized Medicine, Department of Physiology and Pharmacology, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio; Steven Haller, Center for Hypertension and Personalized Medicine, Department of Medicine, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio; Blair Mell, Xi Cheng, Bina Joe, Center for Hypertension and Personalized Medicine, Department of Physiology and Pharmacology, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio

P139  **Stability of DNA Methylation Profiles in Human DNA Samples in Long Term Storage**  
Yingchuan Li, Center of Systems Molecular Medicine, Department of Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Sridiya Kidambi, Department of Medicine, Medical College of Wisconsin, Milwaukee, Wisconsin; Pengyuan Liu, Michelle L. Leitli, Yong Liu, David L. Mattson, Allen W. Cowley Jr., Center of Systems Molecular Medicine, Department of Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Theodore A. Kotchen, Department of Medicine, Medical College of Wisconsin, Milwaukee, Wisconsin; Mingyu Liang, Center of Systems Molecular Medicine, Department of Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin

P140  **Epigenetic Regulation of Nox4 in Hypertension-induced Injury in Aged Kidney**  
Lu Ren, Biswa Das Purkayastha, Utpal Sen, Sathnur Pushpakumar, University of Louisville, Louisville, Kentucky

P141  **GYY4137, a H2S Donor, Normalizes miR-132 Targeted Sirt1 and Ace2 Expression to Improve Kidney Function in Hypertension**  
Gregory Weber, Sathnur Pushpakumar, Utpal Sen, University of Louisville, Louisville, Kentucky

P142  **Inflammation Upregulates Adipocyte Expression of (Pro)renin Receptor**  
Silas A. Culver, Syed S. Quadri, Helmy M. Siragy, University of Virginia, Charlottesville, Virginia

P143  **Hypertension and Inflammation-Related microRNAs**  
Jamie G. Hjimans, Tyler D. Bammert, Philip J. Kavlch, Kyle J. Diehl, Grace M. Linenberg, Ma’ayan V. Levy, Jared J. Greiner, University of Colorado Boulder, Boulder, Colorado; Brian L. Stauffer, University of Colorado School of Medicine, Aurora, Colorado; Christopher A. DeSouza, University of Colorado Boulder, Boulder, Colorado
P144  DHA is a Superior Treatment Over 12/15-lipoxygenase Inhibition in LPS-induced Acute Kidney Injury via Increased Resolvin D2 and IL-10 Levels
Mohamed Katary, Augusta University, Damnhour University, Augusta, Georgia; Nehal M. Elsherbini, Augusta University, Mansoura University, Augusta, Georgia; Ahmed S. Ibrahim, August University, Mansoura University Augusta, GA; Mohamed Al-Shabrawey, Augusta University; Augusta, Georgia; Ahmed A. Elmarakby, Augusta University, Damnhour University, Augusta, Georgia

P145  Renal Inflammation and Injury is Associated with Increased Lymphangiogenesis in Hypertension
Sterling C. Kneedler, Lauren Phillips, Kayla R. Hudson, Katharine M. Beckman, Texas A&M Health Science Center, College Station, Texas; Alan R. Parrish, University of Missouri School of Medicine, Columbia, Missouri; Peter A. Doris, University of Texas Health Science Center at Houston, Houston, Texas; Brett M. Mitchell, Texas A&M Health Science Center, College Station, Texas

P146  Transient Neonatal High Oxygen Exposure Accelerates Adult Cardiac Baseline and Ang II-induced Prooxidative and Proinflammatory Responses
Muhammad Oneeb Rehman Mian, Fauve Boudurea, Mariane Bertagnolli, Marie-Amelie Lukaszewski, Fetomaternal and Neonatal Pathologies Axis, Res Ctr of Sainte-Justine University Hospital, University of Montreal, Montreal, QC, Canada; Thuy Mai LUU, Anne-Monique Nuyt, Fetomaternal and Neonatal Pathologies Axis, Res Ctr of Sainte-Justine Univ Hosp and Faculty of Med, Univ of Montreal, Montreal, QC, Canada

P147  Production of Anti-inflammatory Peptide N-Acetyl-Seryl-Aspartyl-Lysyl-Proline (Ac-SDKP) in Kidney
Cesar A. Romero, Nitin Kumar, Nour-Eddine Rhaleb, Oscar A. Carretero, Henry Ford Hospital, Detroit, Michigan

P148  Connecting Tubule-glomerular Feedback (ctgf) in Renal Hemodynamics and Blood Pressure (bp) After Unilateral Nephrectomy (unx)
Cesar A. Romero, Sumit Monu, Robert Knight, Oscar A. Carretero, Henry Ford Hospital, Detroit, Michigan

P149  Bilateral Renal Denervation Attenuates Hypertension in Male Rats Deficient of Functional Endothelin B Receptors but Does Not Affect Salt-Sensitivity
Bryan K. Becker, Univ of Alabama at Birmingham, Birmingham, Alabama; Amanda C. Feagans, University of Evansville, Evansville, Indiana; Chunhua Jin, David M. Pollock, University of Alabama at Birmingham, Birmingham, Alabama

P150  Lateral Hypothalamic Leptin and Melanocortin Signaling in the Regulation of Sympathetic Nerve Activity and Blood Pressure
Donal A. Morgan, Latisha N. McDaniel, Jingwei Jiang, Kenji Saito, Kevin C. Davis, Michael Lutter, Kamal Rahmouni, Huxing Cui, University of Iowa Carver College of Medicine, Iowa City, Iowa

P151  Adam17 in the Paraventricular Nucleus Contributes to Activation of Pre-Autonomic Neurons and Maintenance of Baseline Blood Pressure
Snigdha Mukerjee, LSU Health, New Orleans, Louisiana; Andrea Zsombok, Tulane University, New Orleans, Louisiana; Eric Lazariguie, LSU Health, New Orleans, Louisiana

P152  Aminopeptidase A in the Brain Exerts Cardiovascular Action via Degradation of Kallidin to Bradykinin
Takuto Nakamura, Mansanobu Yamazato, Yusuke Ohy, University of the Ryukyus School of Medicine, Okinawa-Ken Nakagami-Gun Nishihara-Cho, Japan

P153  Downregulation of Neuronal Nitric Oxide Synthase Within the Paraventricular Nucleus in Insulin Dependent Diabetic Akita Mice
Neeru M. Sharma, Paras K. Mishra, Kaushik P. Patel, University of Nebraska Medical Center, Omaha, Nebraska

P154  Hypertension in Obese African American Women is Not Caused by Increased Sympathetic Activity
Cynthia A. Shibao, Vanderbilt University Medical Center, Nashville, Tennessee; Alejandro Marinos, Beaumont Medical Center, Michigan, Illinois; Jorge E. Celedonio, Luis E. Okamoto, Amy C. Arnold, Alfredo Gamboa, Italo Biagioni, Vanderbilt University Medical Center, Nashville, Tennessee

P155  Fiber-rich Diet Suppresses Lactobacillus and Increases Blood Pressure In The SHR Independently Of T-lymphocyte Immune Responses
Tao Yang, Luis M. Colon-Perez, Kacy L. Magee, Wendi L. Malphurs, Thomas W. Vickroy, Marcelo Febo, Jasenka Zubcevic, University of Florida, Gainesville, Florida

P156  Assessment of Vascular Endothelial Function in Postural Tachycardia Syndrome and Healthy Controls
Jorge Celedonio, Victor Nwazue, Rocio Figueroa, Sachin Paranjape, Bonnie Black, Emily Garland, Luis Okamoto, David Robertson, Andre’ Diedrich, Satish Raj, Cyndya Shibao, Italo Biagioni, Alfredo Gamboa, Vanderbilt University, Nashville, Tennessee

P158  Cullin3 Regulated Endothelial Function by Modulating eNOS Activity
Jing Wu, Ko-Ting Lu, Larry N. Agbor, Chunyan Hu, Xuebo Liu, Masashi Mukohda, Anand R. Nair, Curt D. Sigmund, University of Iowa Carver College of Medicine, Iowa City, Iowa
P167  Combined Exercise Training is Better than Isolated Aerobic and Resistance Exercise Training for an Experimental Model of Metabolic Syndrome and Menopausal Rats
Filipe F. Conti, Janaina O. Brito, Univ Nove de Julho, São Paulo, Brazil; Nathalia Bernardes, Univ de São Paulo/Heart Institute, São Paulo, Brazil; Danielle S. Dias, Univ Nove de Julho, São Paulo, Brazil; Maria C. Irigoyen, Univ de São Paulo/Heart Inst, São Paulo, Brazil; Kátia De Angelis, Univ Nove de Julho, São Paulo, Brazil

P168  20-HETE-mediated Neutrophil Adhesion Impairs Coronary Collateral Growth in Metabolic Syndrome
Gregory Joseph, Amanda Soler, Rebecca Hutcherson, Ian Hunter, Brenda Hutcherson, New York Medical College, Valhalla, New York; Chastity Bradford, Tuskegee University, Tuskegee, Alabama; Katherine H. Gottlinger, New York Medical College, Valhalla, New York; John R. Falck, University of Texas Southwestern Medical Center, Dallas, Texas; Spencer Proctor, University of Alberta, Alberta, AB, Canada; Michal L. Schwartzman, Petra Rocic, New York Medical College, Valhalla, New York

P169  Dipetidyl Peptidase-4 Regulates Hematopoietic Stem Cell Activation in Response to Chronic Stress
Xian Wu Cheng, Nagoya University School of Medicine, Nagoya, Japan; Enbo Zhu, Yanbian University Hospital, Yanji, China; Lina Hu, Yanna Lei, Limie Piao, Aiko Inoue, Masafumi Kuzuya, Nagoya University School of Medicine, Nagoya, Japan

P170  Tonin Overexpression in Mice Diminishes Sympathetic Autonomic Modulation and Suppresses Adrenergic Response
Zaira Palomino Jara, Federal Univ of São Paulo, São Paulo, Brazil; Ivanca C. Moraes-Silva, Fernando Santos, Heart Inst, Univ of São Paulo, São Paulo, Brazil; Leandro E. Souza, Heart Institute, Univ of São Paulo, São Paulo, Brazil; Maria Claudia Irigoyen, Dulce Elena Casarini, Heart Institute, Univ of São Paulo, São Paulo, Brazil

P171  Superoxide via Transcription Factor Sp3 Up-regulates Renal Angiotensin II Receptor Function
Mohammad Salem, University of Houston, Houston, Texas

P172  Activation of Pgc1α by EET Stimulates Insulin Sensitivity, Normalizes Blood Pressure and Increases Mitochondrial Oxphos in Obese Mice
Shailendra P. Singh, New York Medical College, Valhalla, New York; Maayan Waldman, Joseph Schragenheim, Lars Beliner, New York Medical College, Valhalla, New York; Jian Cao, First Geriatric Cardiology Division, Chinese PLA General Hospital, China; Michael Arad, Leviev Heart Ctr Sheba Medical Center, Tel Aviv University, Israel; Israel; Edith Hochhauser, Felsenstein Medical Research Institute, Cardiac Research Laboratory, Israel; Nader Abraham, New York Medical College, Valhalla, New York

P166  The Effect of a Muscadine Grape Extract on Angiotensin II-Induced Hypertension and Cardiac Damage
Pooja Patil, Patricia E. Gallagher, E. Ann Tallant, Wake Forest University School of Medicine, Winston-Salem, North Carolina

P159  Scavengers of Isolevuglandins as Novel Therapeutic Approaches for Treating Hypertension & Associated Inflammation
Wei Chen, Liang Xiao, Annet Kirabo, Danielle L. Michell, Sean S Davies, Venkataraman Amarnath, Jackson L. Roberts, David Harrison, Vanderbilt, Nashville, Tennessee

P158  Inhibition of Angiotensin II-induced Hypertension and Gut Dysbiosis Regulates Renal Angiotensin II Receptor Function
Menge Chen, Daniel S. Chertow, Mayo Clinic, Rochester, Minnesota; Gregory Joseph, Amanda Soler, Rebecca Hutcherson, Ian Hunter, Brenda Hutcherson, New York Medical College, Valhalla, New York; Michael Arad, Leviev Heart Ctr Sheba Medical Center, Tel Aviv University, Israel; Nader Abraham, New York Medical College, Valhalla, New York

P159  Scavengers of Isolevuglandins as Novel Therapeutic Approaches for Treating Hypertension & Associated Inflammation
Wei Chen, Liang Xiao, Annet Kirabo, Danielle L. Michell, Sean S Davies, Venkataraman Amarnath, Jackson L. Roberts, David Harrison, Vanderbilt, Nashville, Tennessee

P160  Non-invasive Method to Assess Human Circadian Rhythms
Daian Chen, S. Justin Thomas, David A. Calhoun, David M. Pollock, Jennifer S. Pollock, University of Alabama at Birmingham, Birmingham, Alabama

P161  Inspiratory Muscle Training and Aerobic Training in the Treatment of Hypertension: Baroreflex Sensitivity, Sympathetic Activity and Endothelial Function Responses
Janaina B. Ferreira, Valéria Hong, Otávio Coelho, Silvia Cavasin, Fernando Santos, Fernanda Consolim-Colombo, Maria Cláudia C. Irigoyen, Heart Institute Medical School São Paulo University, São Paulo, Brazil

P162  Butyrate, a Microbial Metabolite, Attenuates Angiotensin II-induced Hypertension and Gut Dysbiosis
Seungbum Kim, Gilberto O. Lobaton, Mohan K. Raizada, University of Florida, Gainesville, Florida

P163  Effects of Erythropoietin and Erythropoietin- receptor Materials in Blood Pressure, Hematocrit and Body- Spleen Weight Variability
Mary S. Lee, Northwestern University Feinberg School of Medicine and University of Minnesota School of Medicine, Chicago, Illinois; John S. Lee, Princeton University and University of Minnesota School of Medicine, Princeton, New Jersey; Jong Y. Lee, Franz Halberg, University of Minnesota School of Medicine, Minneapolis, Minnesota

P164  The Role of the Adrenoreceptors Beta 3 on Metabolic Syndrome Induced by Fructose
Eduardo Dias Jr., Alexandre Tavolari, Marina Souza, Renata Oliveira, Patricia Fiorino, Miriam O. Ribeiro, Vera M. Farah, University Presbiteriana Mackenzie, São Paulo, Brazil

P165  Exploration of the Mechanism in Which Saccharina Japonica Alleviates an Increase in Blood Pressure in Renovascular Hypertensive Rats
Saki Maruyama, Yukiko Segawa, Kobe Women’s University, Suma, Kobe, Japan; Hiroko Hashimoto, Osaka Seikei Junior College, Higashiyodogawa, Osaka, Japan; Tomoko Osea, Nobutaka Kurihara, Kobe Women’s University, Suma, Kobe, Japan

P166  The Effect of a Muscadine Grape Extract on Angiotensin II-Induced Hypertension and Cardiac Damage
Pooja Patil, Patricia E. Gallagher, E. Ann Tallant, Wake Forest University School of Medicine, Winston-Salem, North Carolina
P173  Caloric Restriction Attenuates Diabetic Cardiomyopathy Through the Recruitment of the Antioxidant System
Maayan Waldman, Cardiac Research Lab, Felsenstein Medical Research Institute, Leivie Heart Center, Sheba Medical Center, Tel Hashomer and Sackler School of Medicine, Tel Aviv University, Petach-Tikva, Israel; Keren Cohen, Cardiac Research Lab, Felsenstein Medical Research Institute, Leivie Heart Center, Sheba Medical Center, Tel Hashomer and Sackler School of Medicine, Tel Aviv University, Petach-Tikva, Israel; Michael Arad, Leivie Heart Center, Sheba Medical Center, Tel Hashomer and Sackler School of Medicine, Tel Aviv University, Petach-Tikva, Israel; Nader G. Abraham, Department of Medicine and Pharmacology, New York Medical College, Valhalla, New York; Michal Laniado-Schwartzman, Department of Pharmacology, New York Medical College, Valhalla, New York; Danny Gurfield, Dan Aravot, Edith Hochhauser, Cardiac Research Lab, Felsenstein Medical Research Inst, Tel-Aviv University, Petach-Tikva, Israel

P174  17-hydroxyprogesterone Caproate Improves Blood Pressures and Placental Cytolytic Nk Cells in Response to Placental Ischemia During Pregnancy
Lorena M. Amaral, Jamil Elfarra, Denise C. Cornelius, Mark W. Cunningham Jr., Tarek Ibrahim, Babbette LaMarca, University of Mississippi Medical Center, Jackson, Mississippi

P175  Soluble Guanylate Cyclase Activator Attenuates Tumor Necrosis Factor-α Induced Production of Endothelin-1 from Human Glomerular Endothelial Cells
Bhavisha Bakrania, Frank T. Spradley, University of Mississippi Medical Center, Jackson, Mississippi; Simon Satchell, University of Bristol, Bristol, United Kingdom; Joey P. Granger, University of Mississippi Medical Center, Jackson, Mississippi

P176  Maternal and Neonatal Outcomes in Normal and Preeclamptic Pregnancies – A Comparative Prospective Study
Ram R. Kalagiri, Scott & White Healthcare/Texas A&M Health Science Center, Temple, Texas; Syeda H. Afroze, Texas A&M Health Science Center College of Medicine, Temple, Texas; Niraj Vora, Nathan Drever, Madhava R. Beeram, Thomas J. Kuehl, Scott & White Healthcare/Texas A&M Health Science Center, Temple, Texas; David C. Zawieja, Texas A&M Health Science Center College of Medicine, Temple, Texas; Mohammad N. Uddin, Scott & White Healthcare/ Texas A&M Health Science Center, Temple, Texas

P177  Reduced Expression of Regulator of G-Protein Signaling-2 (RGS2) in the Placenta During Preeclampsia
Katherine J. Perschbacher, Donna A. Santillian, Eric J. Devor, Sabrina M. Scroggins, Jeremy A. Sandgren, Gary L. Pierce, Mark K. Santillian, Rory A. Fisher, Katherine N. Gibson-Corley, Justin L. Grobe, University of Iowa, Iowa City, Iowa

P178  Vasopressin Induces Discrete Symptoms of Preeclampsia Through Receptor- and Gestational Age-specific Mechanisms
Jeremy A. Sandgren, Danny W. Linggomegoro, Nicole A. Pearson, Katherine J. Perschbacher, Donna A. Santillian, Sabrina M. Scroggins, Katherine N. Gibson-Corley, Gary L. Pierce, Mark K. Santillian, Justin L. Grobe, University of Iowa, Iowa City, Iowa

P179  Neonatal Outcomes in Normal and Preeclamptic Pregnancies: A retrospective Comparative Study
Niraj Vora, Ram R. Kalagiri, Venkata N. Raju, Nathan Drever, Madhava R. Beeram, Lea Mallett, Mohammad N. Uddin, Scott & White Healthcare/ Texas A&M Health Science Center, Temple, Texas

P180  Quantification of Substance P in Human Blood by Mass Spectroscopy
Scott Hubers, Shouzuo Wei, Nancy Brown, Vanderbilt University Medical Center, Nashville, Tennessee

P181  Endothelial Ciliary Muscarinic Receptors and the Pathogenesis of Hypertension in Polycystic Kidney Disease
Wissam Abou Aalawi, Hannah C. Saternos, University of Toledo, Toledo, Ohio

P182  The Novel Perivascular Adipose Tissue Adipokine, Chemerin, Signals Through Gi- and Calcium-Dependent Mechanisms
David J. Ferland, Emma S. Darios, Richard R. Neubig, Benita Sjögren, Nguyen Truong, Rosa Torres, Thomas S. Dexheimer, Janice Thompson, Stephanie W. Watts, Michigan State University, East Lansing, Michigan

P183  Chemokine-like Receptor 1 Mediates the Vasoconstrictor Actions of Chemerin in vitro and in vivo
Amanda Kennedy, Peiran Yang, Cai Read, Rhoda Kuc, Janet Maguire, Anthony Davenport, University of Cambridge, Cambridge, United Kingdom

P184  Co-localization and Natriuretic Interdependence of Angiotensin AT2R and MasR in Obese Rat Kidney
Sanket N. Patel, Quaisar Ali, University of Houston College of Pharmacy, Houston, Texas; Ulrike Muscha Stockelings, University of Southern Denmark, Odense, Denmark; Tahir Hussain, University of Houston College of Pharmacy, Houston, Texas

P185  Role of Ucp2 in the Oxidative/nitrosative Stress-mediated Hypertension Associated with Dj-1 Depletion
Carmen De Miguel, William C. Hamrick, University of Alabama at Birmingham, Birmingham, Alabama; Laureano Asico, Pedro Jose, Santiago Cuevas, George Washington University, Washington, D.C.
P186 Proximal Tubular-Specific Overexpression of the Cyp4a12-20-Hete Synthase Promotes Hypertension
Ankit Gilani, Varun Kumar Pandey, Rebecca Hutcheson, Katherine Gotlinger, Danielle Astarita, Michal Schwartzman, New York Medical College, Valhalla, New York

P187 Partial Renal Infarction Induces Hypertension
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Hannah Rosenblum, Columbia University Medical Center, New York, New York; Stuart Katz, New York University Langone Medical Center, New York, New York

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<td>Suellen C. Coelho, Sofiane Ouerd, Julio C. Fraulob-Aquino, Hypertension and Vascular Research Unit, Lady Davis Institute for Medical Research, SMBD-Jewish General Hospital, McGill University, Montreal, QC, Canada; Tili Barhoumi, Hypertension and Vascular Research Unit, Lady Davis Institute for Medical Research, SMBD-Jewish General Hospital, McGill University, Montreal, QC, Canada; Stefan Offermanns, Department of Pharmacology, Max-Planck-Inst for Heart and Lung Research, Bad Nauheim, Germany; Pierre Paradis, Hypertension and Vascular Research Unit, Lady Davis Institute for Medical Research, SMBD-Jewish General Hospital, McGill University, Montreal, QC, Canada; Ernesto L. Schiffrin, Hypertension and Vascular Research Unit, Lady Davis Institute for Medical Research and Department of Medicine, SMBD-Jewish General Hospital, McGill University, Montreal, QC, Canada</td>
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<td>Sofiane Ouerd, Nouredine Idris-Khodja, Hypertension and Vascular Res Unit, Lady Davis Institute for Medical Res, SMBD-Jewish General Hospital, McGill University, Montreal, QC, Canada; Michelle Trindade, State University of Rio de Janeiro, Rio de Janeiro, Brazil; Suellen C. Coelho, Hypertension and Vascular Research Unit, Lady Davis Institute for Medical Research, SMBD-Jewish General Hospital, McGill University, Montreal, QC, Canada; Mario F. Neves, State Univ of Rio de Janeiro, Rio de Janeiro, Brazil; Karin A. Jandeleit-Dahm, Baker IDI Heart &amp; Diabetes Res Institute, Melbourne, Australia; Pierre Paradis, Hypertension and Vascular Research Unit, Lady Davis Institute for Medical Research, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Ernesto L. Schiffrin, Hypertension and Vascular Research Unit, Lady Davis Institute for Medical Res, Department of Medicine, SMBD-Jewish General Hosp, McGill University, Montreal, QC, Canada;</td>
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Hongliang Li, Xiao-Jing Zhang, Ke-Qiong Deng, Wuhan Univ, Wuhan, China

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Hongliang Li, Yan-Xiao Ji, Peng Zhang, Wuhan Univ, Wuhan, China

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Travice Michael De Silva, Justin Grobe, Frank Faraci, University of Iowa College of Medicine, Iowa City, Iowa

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Hamza A. Lodhi, Baptist Memorial Hospital, Southaven, Mississippi; Hasan Shafiq, Aures Univ Sch of Med, Oranjestad, Aruba; Asim Mushtaq, Cookeville Medical Center, Cookeville, Tennessee; Muhammad H. Khan, Saint Luke's Medical Center, Houston, Texas; Ehtesham Haq, University Of Alabama, Mobil, Alabama; Ali Shafiq, Saint Luke's Mid America Heart Institute, Kansas City, Missouri

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Cynthia Cheng, Scott Keith, Thomas Jefferson University, Philadelphia, Pennsylvania

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Julia Pareja, Angela Barrera, Sergio Yun, Hospital Mutua Terrassa, Terrassa, Spain; Susana Vazquez, Anna Oliveras, Hospital Del Mar, Barcelona, Spain; Pedro Armario, Pere Blanch, Hosp Moises Broggi, Barcelona, Spain; Patricia Fernandez-Llama, Francesca Calero, Fundacio Puigvert, Barcelona, Spain; Alejandro De La Sierra, Hospital Mutua Terrassa, Terrassa, Spain

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David Kountz, Yen-Hong Kuo, Anne Detoro, Meridian Health, Neptune, New Jersey; Sabrina Luisi, Rutgers University, Piscataway, New Jersey; Ahmad AbiHomoud, Urvish Patel, Meridian Health, Neptune, New Jersey
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Cynthia Cheng, Thomas Jefferson University, Philadelphia, Pennsylvania; Raymond Townsend, Julio Chirinos, University of Pennsylvania, Philadelphia, Pennsylvania; Scott Keith, Thomas Jefferson University, Philadelphia, Pennsylvania

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Khan Siddiqui, Johns Hopkins, Baltimore, Maryland; Ross Gogla, Higi SH LLC, Chicago, Illinois; Aamer Ghaffar, mHealthCoach, Chicago, Illinois

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Jelena Spyropoulos, Charles Kearns, Medscape LLC, New York, New York

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Deborah L. Stewart, Gregory A. Harshfield, Laura Carbone, Augusta University, Augusta, Georgia; Coral Hanevold, University of Washington, Seattle, Washington

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Michael K. Rakotz, Omar Hasan, American Medical Association, Chicago, Illinois; Eduardo Sanchez, American Heart Association, Dallas, Texas; Greg Wozniak, American Medical Association, Chicago, Illinois

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Carma Ayala, CDC/NCCDPHP/DACH, Atlanta, ID; Xin (Cindy) Tong, CDC/NCCDPHP/DACH, Atlanta, GA; Carol Ochoa, Emory Rollins Sch of Public Health, Atlanta, Georgia; Carla Mercado, CDC/NCCDPHP/DACH, Atlanta, Georgia; Jing Fang, CDC/NCCDPHP/DACH, Atlanta, ID

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Trevor S. Ferguson, Novie O Younger-Coleman, Marshall K. Tulloch-Reid, Jennifer M. Knight-Madden, Maureen E. Samms-Vaughan, Deanna E. Ashley; Rainbow J. Wilks, The University of the West Indies, Kingston, Jamaica

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Yoshihiro Kokubo, Makoto Watanabe, Aya Higashiyama, Yoko M. Nakao, Fumiaki Nakamura, Kunihiro Nishimura, Misa Takegami, Kengo Kusano, Yoshihiro Miyamoto, National Cerebral and Cardiovascular Center, Suita, Japan

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Holly Kramer, Loyola Medical Center, Maywood, Illinois; Adam Bress, University of Utah, Salt Lake City, Utah; Srinivasan Beddhu, Loyola Medical Center, Maywood, Illinois; Paul Muntner, University of Alabama, Birmingham, Alabama; Richard S. Cooper, Loyola Medical Center, Maywood, Illinois

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Yasuharu Tabara, Yoshiimitsu Takahashi, Takeo Nakayama, Fumihiko Matsuda, Kyoto Univ, Kyoto, Japan

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Kosuke Endo, Nacharu Iwai, National Cerebral and Cardiovascular Center, Osaka, Japan

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### P265 **Blood Pressure Control is Better and Less Expensive in Chronic Kidney Disease When Associated Metabolic Acidosis is Treated with Fruits and Vegetables Rather Than Sodium Bicarbonate**

Nimrit Goraya, Baylor Scott and White Health, Temple, Texas; Jan Simoni, Texas Tech University Health Sciences Center, Lubbock, Texas; Jessica Pruszynski, Pin Xiang, Donald Wesson, Baylor Scott and White Health, Temple, Texas
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P266  Thromboxane-prostanoid Receptors (tp-rs) Mediate Hypertension, H2o2 Generation and Impaired Renal Afferent Arteriolar Myogenic Responses Leading to Nephropathy in Doca/salt Mice
Christopher S. Wilcox, Lingli Li, En Yin Lai, Adam Hoszszu, William J. Welch, Georgetown University, Washington, D.C.

P267  Sex Differences in Cyp450 Activity and the Development of Hypertension and Renal Injury in the Dahl S Rat
Wenjie Wu, Sydney Murphy, University of Mississippi Medical Center, Jackson, Mississippi

P268  The Effects of a Slow Pressor Dose of Angiotensin II on Sodium Transporters Expression in the Kidney Cortex are Independent of PPAR-alpha

P269  Sodium Transporter Profile in Mice Lacking AT1A Receptors in the Renal Proximal Tubule
Alicia A. McDonough, Audrey K. Izhara, USC Keck Sch of Med, Los Angeles, California; Zhidan Xiang, Duke University School of Medicine, Durham, North Carolina; Donna L. Ralph, USC Keck School of Medicine, Los Angeles, California; Rishav Adhikari, Susan B. Gurley, Duke University School of Medicine, Durham, North Carolina

P270  Carotid Stenosis: A Frequently Overlooked Etiology of Secondary Hypertension
J. Scott Pannell, Mihir Gupta, Arvin R. Wali, Peter Abraham, Kevin A. Porras, Vincent J. Cheung, Yasaman Alam, Alexander A. Khalesi, University of California San Diego, San Diego, California

P271  Involvement of Neuro-Inflammation in the Pathogenesis of MCT-Induced Pulmonary Hypertension
Ravindra K. Sharma, Vinsyak Shency, Ashok Kumar, Avinash Mandloi, Michael J. Katovich, Mohan K. Raizada, University of Florida, Gainesville, Florida

P272  Increased Inhibition of Potassium Channel Currents by Angiotensin II in Sympathetic Neurons may Contribute to a Sustained Blood Pressure Elevation in (mRen2)27 Rats
Serguei S. Sidach, Victor M. Pulgar, Azeez A. Aliyu, Winston-Salem State University, Winston-Salem, North Carolina

P274  Fruit Extract (Blueberry, Cranberry, and Pomegranate) Improved Insulin Resistance In Overweight Hypertensive And Normotensive Subjects
Ludmila N. Novaes, Mariele Moraes, Keyla Katayama, Carine Sangalseti, Maria Claudia Irigoyen, Luiz Bortolotto, Heno Lopes, Heart Inst (InCor) do Hosp das Clinicas da Faculdade de Medicina da USP, Sao Paulo, Brazil

P275  A Randomized Clinical Trial on Dietary Nitrate and Blood Pressure
Michaela L. Sundqvist, Eddie Weitzberg, Jon O. Lundberg, Physiology and Pharmacology, Stockholm, Sweden

P276  Tissue Primacy of Chymase as an Angiotensin II-forming Enzyme from Angiotensin-(1-12)
Sarfraz Ahmad, Jasmina Varagic, Che Ping Cheng, Wake Forest School of Med, Winston-Salem, North Carolina; James F. Collawn, Louis J. Dell’Italia, University of Alabama at Birmingham, Birmingham, Alabama; Carlos M. Ferrario, Wake Forest School of Medicine, Winston-Salem, North Carolina

P277  Altered Cardiomyocyte Inotropic Response to Chymase/Ang-(1-12) Pathway Activation in Heart Failure
Tiankai Li, Xiaowei Zhang, Sarfraz Ahmad, Jasmina Varagic, Heng-Jie Cheng, Zhi Zhang, Leanne Groban, Carlos M. Ferrario, Che-Ping Cheng, Wake Forest University School of Medicine, Winston-Salem, North Carolina

P278  On the Origin of Brain Renin
Bibi S. van Thiel, Luuk te Riet, David Severs, Estrellita Uijl, Ingrid M. Garrelds, Erasmus MC, Rotterdam, Netherlands; Fatimunnisa Qadri, Max Delbrück Ctr, Berlin, Germany; Natalia Alenina, Max Delbrück Ctr, Berlin, French Guiana; Michael Bader, Max Delbrück Ctr, Berlin, Germany; A. Danser, Erasmus MC, Rotterdam, Netherlands

P279  Human Angiotensin Receptor Gene Variations, Hypertension & Reno-Vascular Complications
Sudhir Jain, Natalie Sierianni, Nitin Puri, Ahmed Al Khudhair, Ashok Kumar, University of Toledo, Toledo, Ohio

P280  Novel Insights into Transcriptional Regulation of the Human Angiotensinogen Gene by High-salt: A Study in Transgenic Mice
Meenakshi Kaw, Sudhir Jain, Shrvan Perla Perla, Natalie Sierianni, Mariam Alakrawi Alakrawi, Nitin Puri, Sai Sushani Yanamandra, Ashok Kumar, University of Toledo, Toledo, Ohio

P281  Alamandine-induced Vasorelaxation is Selectively Increased in Sp-shr
Nadia Leao, Gisele Estelino, Robson Santos, UFMG, Belo Horizonte, Brazil

P282  Use of a CRISPR/Cas9 System for Specification of the Renin Cell Phenotype
Silvia Medrano, Evan Brown, Maria F. Martinez, Maria Luisa S. Sequeira-Lopez, R. Ariel Gomez, University of Virginia, Charlottesville, Virginia
P283  Effects of Ovarian Estrogens on Local RAS Activity in Cardiomyocytes and Non-cardiomyocytes
Xuming Sun, Sarfaraz Ahmad, Marina Lin, Wake Forest School of Medicine, Winston-Salem, North Carolina; Giselle Zapata-Sudo, Univ Federal do Rio de Janeiro, Rio de Janeiro, Brazil; Cheping Cheng, Jasmina Varagic, Carlos Ferrario, Hao Wang, Wake Forest School of Medicine, Winston-Salem, North Carolina; Leanne Groban, Wake Forest School of Medicine, Winston-Salem, North Carolina

P284  Angiotensin II Upregulates Cytochrome-450 4A Expression in Rat Kidney Through Type 1 Receptor Wanting Wang, Rong Rong, Osamu Ito, Yoshiko Ogawa, Yoshikazu Muroya, Masahiro Kohzuki, Tohoku University, Sendai, Japan

P285  Diastolic Dysfunction After Estrogen Loss is Linked to Cardiac Chymase in WKY but Not SHR Rats
Hao Wang, Wake Forest School of Medicine, Winston-Salem, North Carolina; Jacqueline da Silva, Daniele Gabriel-Costa, Univ Federal do Rio de Janeiro, Rio de Janeiro, Brazil; Sarfaraz Ahmad, Wake Forest School of Medicine, Winston-Salem, North Carolina; Xuming Sun, Wake Forest School of Medicine, Winston-Salem, North Carolina; Marina Lin, Wake Forest School of Medicine, Winston-Salem, North Carolina; Roberto T. Sudo, Univ Federal do Rio de Janeiro, Rio de Janeiro, Brazil; Jasmina Varagic, Carlos Ferrario, Wake Forest School of Medicine, Winston-Salem, North Carolina; Giselle Zapata-Sudo, Univ Federal do Rio de Janeiro, Rio de Janeiro, Brazil; Leanne Groban, Wake Forest School of Medicine, Winston-Salem, North Carolina

P286  Modulation Way Classical and Alternatives of Renin Angiotensin System (RAS) in Mesangial Cells After Exposure to Fructose
Rodrigo Yokota, Zaira Jara Palomino, Larissa Emi Matsumoto, Danielle Sanches Aragão, Dulce Elena Casarin, Nephrology Discipline, Med Dept, Federal Univ of São Paulo, São Paulo, Brazil

P287  Endothelial Dysfunction in Small Resistance Arteries of Patients with Severe Obesity: Role of Arginase
Agostino Virdis, Emiliano Duranti, Monica Nannipieri, Marco Anselmino, Andrea Grazi, Stefano Taddei, University of Pisa, Pisa, Italy

P288  Action of CMF-019, the First Small Molecule Apelin Receptor Agonist Biased Towards G-protein Signalling versus the β-arrestin/internalization Pathway
Anthony Davenport, Cai Read, University of Cambridge, Cambridge, United Kingdom; Christopher Fitzpatrick, Univ of Leeds, Leeds, United Kingdom; Peiran Yang, Rhoda Kuc, Janet Maguire, Robert Glen, University of Cambridge, Cambridge, United Kingdom; Richard Foster, Univ of Leeds, Leeds, United Kingdom

P289  Renal Dopamine D2 Receptor Overexpression Ameliorates Ischemia/Reperfusion Injury
Prasad Konkalmatt, Laureano Asico, Xiaoxu Zheng, Pedro A. Jose, Ines Armando, George Washington University, Washington, D.C.

P290  Human Stomach Gastrin is Regulated by Sodium Human Stomach Gastrin Secretion is Regulated by Ingested Sodium and the Dopamine 1 Receptor
Peng Xu, John J. Gildea, Chi Zhang, Dora Wang, Hahn T. Tran, University of Virginia, Charlottesville, Virginia; Pedro A. Jose, George Washington University School of Medicine, Washington, D.C.; Robin A Felder, Univ of Virginia, Charlottesville, Virginia

P291  High Fat Diet Promotes Hypertension and Vascular Remodeling but Not Vascular Fibrosis or Altered Contractility in Dahl Salt Sensitive Rats
Roxanne Fernandes, Patricia A. Perez Bonilla, Hannah Garver, James J. Galligan, Gregory D. Fink, Hui Xu, Michigan State University, East Lansing, Michigan

P292  ENPP1-Fc Protein Inhibits Proliferation of Human Vascular Smooth Muscle Cells
Yan Yan, Anumeha Shah, Ashmita Saigal, Susan Faas, Zhiliang Cheng, Kim Askew, Andre Marozzaan, Alexion Pharmaceuticals, New Haven, Connecticut

P293  Endothelial Sodium Channel Activation Promotes Vascular Stiffness in Obese Female Mice
Annayya Aroor, Francisco I. Ramirez-Perez, Guanghong Jia, Javad Habibi, Vincent G. DeMarco, Mona Garro, Brady J. Barron, Zhe Sun, Gerald A. Meininger, Luis A Martinez-Lemus, James R. Sowers, University of Missouri, Columbia, Missouri

P294  Cardiac Stiffness in Obese Female Mice

P295  Effective Arterial Elastance and Hypertensive Response to Stress
Andy Kieu, Michael Widlansky, Medical College of Wisconsin, Wauwatosa, Wisconsin

P296  Distinct Profiles of Extracellular Vesicles are Elevated During Evolution of Hypertension
Uta Erdbrügger, Nancy L. Howell, Christine Rudy, Robert M. Carey, Thu H. Le, University of Virginia Health System, Charlottesville, Virginia

P297  Finerenone Protects Against the Acute and Chronic Consequences of Renal Ischemia/ reperfusion Injury
Jonatan Barrera-Chimal, Alain Le Mercier, Soumaya EI-Moghhari, INSERM U1138, Paris, France; Peter Kolkhof, BAYER Pharma AG, Cardiology Res, Wuppertal, Germany; Frederic Jaisser, INSERM U1138, Paris, France
POSTER PRESENTATIONS (continued)

P299  Thymosin Beta15 is a Novel Precursor of N-acetyl-seryl-aspartyl-lysyl-proline (Ac-SDKP)
        Tang-Dong Liao, Cesar Romero, Nitin Kumar, Nour-Eddine Rhaleb, Oscar Carretero, Henry Ford Hospital, Detroit, Michigan

P300  Cardiac Ly6Chigh Monocyte Accumulation and Remodeling Depend on the Mineralocorticoid Receptor in Endothelial Cells
        Achim Lother, Aurelia Hübner, Ingo Hilgendorf, Tilman Schnick, Martin Moser, Christoph Bode, Lutz Hein, University of Freiburg, Freiburg, Germany

P301  Renal Expression of Collectrin (TMEM27) is Downregulated During Angiotensin II-induced Hypertension
        Sylvia Cechova, Pei-Lun Chu, Joseph Gigliotti, Thu H. Le, University of Virginia, Charlottesville, Virginia

P302  A Positive Correlation Between High Levels of Inflammatory Markers and Angiotensin II in Obese Appalachian Females
        Hibba Chaudhry, Alexandra Nichols 25701, Athar Nawab, Vishal Lakhan, Kritika Srikantan, Komal Sodhi, Marshall University School of Medicine, Huntington, West Virginia

P303  Cilostazol Attenuates Angii-induced Cardiac Fibrosis in Mice
        Yuka Okuyama, Haruhiro A. Uchida, Ryoko Umebayashi, Yuki Kako, Hideki Takeuchi, Michihiro Okuyama, Jun Wada, Okayama University, Okayama, Japan

P304  A Sympathetic-cholinergic Pathway Performs a Connection Between Brain and Spleen, to Prime Immune System and Induce Arterial Hypertension
        Daniela Carnevale, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli (IS), Italy; Marialuisa Perrotta, IRCCS Neuromed, Pozzilli, Italy; Fabio Pallante, Lorenzo Carnevale, Giuseppe Cifelli, Valentina Fardella, Roberta Iacobucci, Stefania Fardella, IRCCS Neuromed, Pozzilli (IS), Italy; Giuseppe Lembo, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli, Italy

P305  Sympathetic Activation Elicited by Bilateral Carotid Occlusion Attenuates Cytokine Release in Conscious Endotoxemic Rats
        Fernanda Brognara, Jaci A. Castania, Daniel P. Dias, Rubens Fazan Jr., Fernando Q. Cunha, Ribeirão Preto Medical Sch, Ribeirão Preto, Brazil; Kaushik P. Patel, Univ of Nebraska Medical Center, Omaha, Nebraska; Luis Ulloa, New Jersey Medical School, Newark, New Jersey; Alexandre Kanashiro, Helio C. Salgado, Ribeirão Preto Medical Sch, Ribeirão Preto, Brazil

P306  Inflammatory Biomarkers Participate in Physiopathology of Hypertensive Crisis
        Jose F. Vilela-Martín, Days Oliveira-Andrade, Luciana N. Cosenzo-Martín, Michele L. Gregorio, Moacir F. Godoy, Juan C. Yugar-Toledo, Doroteia R. Souza, State Medical Sch in São José do Rio Preto (FAMERP), São José do Rio Preto, Brazil

P307  Effect of Bradykinin Receptor Antagonism on ACE Associated Angioedema
        Claudia E. Ramirez, Brittany T. Straka, James B. Byrd, Elizabeth Stone, Alecia Woodard-Grice, Nian Hui, Chang Yu, Vanderbilt University, Nashville, Tennessee; Aleena Banerji, Massachusetts General Hospital, Boston, Massachusetts; Nancy J. Brown, Vanderbilt University, Nashville, Tennessee

P308  Pilot Study: 24 Hour and Daytime Blood Pressure Lowering Effect of Melatonin in Younger and Older Non-hypertensive Adults

P309  Safety, Tolerability and Pharmacokinetic Data of the Novel Orally Active Formulation of Angiotensin-1 (1-7), Hydroxypropyl-β-cyclodextrin/β-Angiotensin-(1-7), Hydroxypropyl-β-cyclodextrin/β-Angiotensin-(1-7), in Healthy Volunteers- A Randomized Double-blinded Controlled Pilot Study
        Janaïna Koenen, Marilene Oliveira, UFMG, Belo Horizonte, Brazil; Daniele Hamamoto, Labfor Pesquisa e Serviços Ltda, Belo Horizonte, Brazil; Sérgio H. Santos, Ruben Sinisterra, UFMG, Belo Horizonte, Brazil; Frederico B. Sousa, UNIFEI, Itajubá, Brazil; Antônio Ribeiro de Oliveira Junior, Rodrigo Foscolo, Robson A. Santos, UFMG, Belo Horizonte, Brazil

P310  Reduction of Blood Pressure and Improvement of Heart Rate Variability in Hypertensive Cohort Associated With Use of a Closed Loop Neurotechnology
        Hossam A. Shaltout, Catherine L. Tegeler, Charles H. Tegeler, Wake Forest University, School of Medicine, Winston-Salem, North Carolina

P311  Cardiac Sympathetic Afferents Does Not Initiate but Contributes to the Further Development of Hypertension in Spontaneous Hypertensive Rats
        Hanjun Wang Dr., Irving H. Zucker, University of Nebraska Medical Center, Omaha, Nebraska

P312  A Novel Selective Melanocortin-4 Receptor Agonist Attenuates Bradycardia and Hyperglycemia in Diabetic Rats
        Jussara M. do Carmo, University of Mississippi Medical Center, Jackson, Mississippi; Alexander A da Silva, Center Universitário Barão de Mauá, Ribeirão Preto, São Paulo, Brazil; John E. Hall, University of Mississippi Medical Center, Jackson, Mississippi

P313  Alterations in Notch Signaling in Diabetic Coronary Microvascular Smooth Muscle and Endothelial Cells
        Patricia McCallinhart, Brenda Lilly, Aaron J. Trask, Nationwide Children’s Hospital, Columbus, Ohio
**Poster Presentations (continued)**

P314 **Urinary Renin and Kidney RAS Activation in Mice with Diabetic Kidney Disease**
Johannes Rein, Patricia Valles, Jan Wysocki, Minghao Ye, Northwestern University, Chicago, Illinois; Mariam Afkarian, University of Washington, Seattle, Washington; Daniel Battle, Northwestern University, Chicago, Illinois

P315 **Vascular AT1 Angiotensin Receptors Do Not Contribute to Albuminuria or Hyperfiltration in Diabetics**
Matthew A. Sparks, Stacy Johnson, Rishav Adhikari, Edward Diaz, Aaron Kupin, Kat Bentd, Susan Gurley, Thomas Coffman, Duke University, Durham, North Carolina

P316 **Angiotensin-(1-7) Contributes to the Insulin-sensitizing Effects of Renin-angiotensin System Blockade in High Fat Fed Mice**
Amy C. Arnold, Penn State College of Medicine, Hershey, Pennsylvania

P317 **Obesity Subtypes and Prevalence, Treatment and Control of Hypertension in HIV Infected and Welltreated Patients**
Hong Seok Lee, Belen Nunez, Amrut Savadkar, Ferdinand Visco, Gerald Pekler, Savi Mushiyev, Metropolitan Hosp, New York Medical College, New York, New York

P318 **miR-155 Induces Inflammation by Polarizing M1 Macrophages in a TLR3-induced Preeclamptic Mouse Model**
Valerie L. Chiasson, Baylor Scott and White Health/Texas A&M Health Science Center, Temple, Texas; Kelsey R. Bounds, Derek Charles, Giuseppina Dusio, Baylor Scott and White Health, Temple, Texas; Richard P. Tobin, M. Karen Newell Rogers, Piyali Chatterjee, Baylor Scott and White Health/Texas A&M Health Science Center, Temple, Texas

P319 **Age- and Sex-differences in Salt Sensitivity and Reduced Salt Taste Sensitivity Leads to Increase Development of Preeclampsia in Humans Despite Exaggerated Suppression of Plasma Osmolality**
Mark K. Santillan, Sabrina M. Scroggins, Alyssa T. Ray, Phillip C. Witcher, Jeremy A. Sandgren, Danny W. Linggongoro, Gary L. Pierce, Donna A. Santillan, Justin L. Grobe, University of Iowa, Iowa City, Iowa

P320 **Vasopressin Release is Enhanced Before the Development of Preeclampsia in Humans Despite Exaggerated Suppression of Plasma Osmolality**
Mark K. Santillan, Sabrina M. Scroggins, Alyssa T. Ray, Phillip C. Witcher, Jeremy A. Sandgren, Danny W. Linggongoro, Gary L. Pierce, Donna A. Santillan, Justin L. Grobe, University of Iowa, Iowa City, Iowa

P321 **Increased Brain iNOS Contributes to Hypertension in Dahl Salt-sensitive Rats (dahlss): Role of Connecting Tubule Glomerular Feedback (ctgf)**
Hong Wang, Cesar A. Romero, Branislava Janic, Edwards Peterson, Oscar A. Carretero, Henry Ford Hospital, Detroit, Michigan

P322 **Enhanced Afferent Arteriole Dilatation in Dahl Salt-sensitive Rats (dahlss): Role of Connecting Tubule Glomerular Feedback (ctgf)**
Hong Wang, Cesar A. Romero, Branislava Janic, Edwards Peterson, Oscar A. Carretero, Henry Ford Hospital, Detroit, Michigan

P323 **Arginine Vasopressin and Indoleamine 2,3 Dioxygenase: The Early Immunovascular Interface in Preeclampsia**
Donna A. Santillan, Sabrina M. Scroggins, Eric J. Devor, Stephen K. Hunter, Justin L. Grobe, Curt D. Sigmund, Mark K. Santillan, University of Iowa, Carver College of Medicine, Iowa City, Iowa

P324 **Reduced in Excreted Sodium Load in Obese Sheep: Role of Antenatal Betamethasone and Sex**
Jianli Bi, Yixin Su, Mark Chappell, James Rose, Wake Forest University School of Medicine, Winston-Salem, North Carolina

P325 **Increased Brain iNOS Contributes to Hypertension in Dahl Salt-sensitive Rats (dahlss): Role of Connecting Tubule Glomerular Feedback (ctgf)**
Hong Wang, Cesar A. Romero, Branislava Janic, Edwards Peterson, Oscar A. Carretero, Henry Ford Hospital, Detroit, Michigan

P326 **Reduced Salt Taste Sensitivity Leads to Increase of Daily Salt Intake**
Minoru Isomura, Toru Nabika, Shimane University, Izumo, Japan

P327 **Age- and Sex-differences in Salt Sensitivity and Renal Function in a Rat Model of Autosomal Recessive Polycystic Kidney Disease**
Chunhua Jin, Michal Mrug, Bradley K. Yoder, Robert A. Kesterson, Edward W. Inscho, David M. Pollock, University of Alabama at Birmingham, Birmingham, Alabama

P328 **Increased Brain iNOS Contributes to Hypertension in Dahl Salt-sensitive Rats (dahlss): Role of Connecting Tubule Glomerular Feedback (ctgf)**
Hong Wang, Cesar A. Romero, Branislava Janic, Edwards Peterson, Oscar A. Carretero, Henry Ford Hospital, Detroit, Michigan

P329 **Role of Na-H Exchanger Regulatory Factor 1 (NHERF1) In Salt-sensitive Hypertension and Inflammation in Aging**
Syed J. Khundmiri, Howard University, Washington, D.C.

P330 **Renal Medullary Infusion of BAF312, a Sphingosine-1-phosphate Receptor-1 Agonist, Attenuates Angiotensin II-induced Hypertension**
Qing Zhu, Junping Hu, Pin-Lan Li, Ningjun Li, Medical Coll of Virginia, Virginia Commonwealth University, Richmond, Virginia
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**Poster Presentations**

**P332** Role of T-Lymphocytes in the Long-Term Blood Pressure and Renal Disease Effects of Acute Renal Ischemia-Reperfusion Injury

_Bernardo Lopez_*, Galina Petrova, Justine M. Abais-Battad, Hayley Lund, Daniel Fehrenbach, David L. Mattson, Medical College of Wisconsin, Milwaukee, Wisconsin

**P333** The Impact of Sodium on Blood Pressure and Arterial Stiffness is Moderated by Indices of Obesity in People of African Ancestry

_Maseko Muzi_*, University of the Witwatersrand, Johannesburg, South Africa

**P334** Sympathetically Mediated Alpha-1 Adrenoceptor Regulation of the NCC During High Salt Intake: A New Therapeutic Target for Resistant Hypertension

_Richard D. Wainford_*, Kathryn R. Walsh, Boston University, Boston, Massachusetts

**P335** The Cross-talk Between Kidney and Retroperitoneal Adipose Tissue Reveal Novel Roles for Adiponectin in the Regulation of Sodium Excretion in Essential Hypertension

_Chunyu Zeng_*, Hefei Huang, Daping Hospital, Chongqing, China

**P336** Changes in Arterial Pulse Wave Velocity, Effective Arterial Elastance, and Contractility in Hypertension Induced Cardiovascular Disease in Rats: Independent Prognostic Values

_Steve R. Roof_*, Carlos del Rio, QTest Labs, Columbus, Ohio

**P337** Angiotensin 1-7 Mitigates Oxidative Stress, Protects Renal Dopamine D1 Receptor Function and Prevents Development of Hypertension

_Mustafa Lokhandwala_*, Andrea Diaz Diaz, Anees Ahamd Banday, Heart and Kidney Institute, College of Pharmacy, University of Houston, Houston, Texas

**P338** Heme Oxygenase Induction Suppresses Hepatic Hepcidin and Rescues Ferropoitin and Ferritin Expression in Obese Mice

_Hibba Chaudhry 25701_, _Alexandra Nichols_*, Komal Sodhi MD, Krithika Srikanthan, MD, Athar Nawab, Marshall University School of Medicine, Huntington, West Virginia

**P339** Endothelium-specific Deletion of Amyloid Precursor Protein Causes Endothelial Dysfunction of Cerebral Arteries

_Liviu V. d’Uscio_*, Zvonimir S. Katusic, Mayo Clinic, Rochester, Minnesota

**P340** Molecular Mechanisms of Fetuin-a-induced Vascular Dysfunction and Inflammation: Role of Oxidative Stress and Toll-like Receptor 4

_Augusto C. Montezano_*, Delyth Graham, Rhian M. Touyz, Institute of Cardiovascular and Medical Sciences, Glasgow, United Kingdom

**P341** Osteoprotgerin-induced ROS Production and Redox Signalling is Exacerbated in Hypertension and Involves Syndecan-1 and TRPM2 Activation

_Augusto C. Montezano_*, Ross Hepburn, Delyth Graham, Rhian M. Touyz, Institute of Cardiovascular and Medical Sciences, Glasgow, United Kingdom

**P342** Vascular Protein Oxidation and Redox Proteomics in Hypertension

_Sofia Tsipoupolou_*, _Augusto C. Montezano_*, Institute of Cardiovascular and Medical Sciences, Glasgow, United Kingdom; Alan Scott, Richard J. Burchmore, Institute of Infection, Immunity and Inflammation – Proteomics Facility, Glasgow, United Kingdom; Rhian M. Touyz, Institute of Cardiovascular and Medical Sciences, Glasgow, United Kingdom

**P343** Exercise-induces Mitochondrial Remodeling Prevents Angiopenstin II-induced High Blood Pressure

_Joon-Young Park_*, Boa Kim, Satoru Eguchi, Victor Rizzo, Michael Brown, Temple University, Philadelphia, Pennsylvania

**P344** Increased Expression and Function of Endothelin Receptors in Aorta of (mRen2)27 Hypertensive Rats

_Victor M. Pulgar_*, Oludamila T. Ademoyero, Sergeui S. Sidach, Aeez A. Aileru, Winston State University, Winston-Salem, North Carolina

**P345** Plasma Insulin Like Growth Factor Binding Protein-7 and Tissue Inhibitor of Metalloproteinase-2 are Associated with Reduced Renal Blood Flow and Change in Kidney Function After Revascularization in Human Atherosclerotic Renovascular Disease RVD

_Ahmed Saad_*, Sandra Herrmann, Hui Tang, John Woillard, Michael McKusick, Lilach Lerman, Stephen Textor, Mayo Clinic, Rochester, Minnesota

**P346** Endothelial Function and NO Bioavailability are Improved in Angiopenstin II-treated Transglutaminase-2 Knock-out Mice

_Carmine Savoia_*, Emanuele Arrabit, Sergio Chiandotto, Carmine Nicoletti, Raffaella Carletti, Cira Di Gioia, Massimo Volpe, Sapienza University of Rome, Rome, Italy

**P347** Retinol-binding Protein 7 (RBP7) is Required for PPARG-mediated Endothelial Protection via Adiponecin

_Chunyan Hu_, Henry L. Keen, Ko-Ting Lu, Deborah R. Davis, Xuebo Liu, Jing Wu, University of Iowa Carver College of Medicine, Iowa City, Iowa; Silke Vogel, Duke-NUS Medical School, Singapore, Singapore; Frederick W. Quelle, _Curt D. Sigmund_, Univ of Iowa Carver College of Medicine, Iowa City, Iowa
SFRN Posters

P348  SHIP AHOLY: Study of High Blood Pressure In Pediatrics: Adult Hypertension Onset in Youth
Urbina EM,* Flynn J,† Becker R,‡ Mitsnefes R*  
*Cincinnati Children’s Hospital Medical Center, †Seattle Children’s Hospital, ‡University of Cincinnati

P349  What Blood Pressure (BP) Phenotype in Adolescents is Most Predictive of Hypertensive Target Organ Damage (TOD)?
Flynn JT1, Hanevold C1, Lane M2, Meyers K3, Samuels J4, Hooper S5, Urbina EM6  
1Seattle Children’s Hospital, 2University of Rochester, 3Children’s Hospital of Philadelphia, 4University of Texas-Houston, 5University of North Carolina, 6Cincinnati Children’s Hospital Medical Center

P350  Blood Pressure Related Target Organ Damage in Youth: the SHIP AHOLY Study
Mendizábal B,* Urbina EM,* Flynn J,† Becker R,‡ Mitsnefes R*  
*Cincinnati Children’s Hospital Medical Center, †Seattle Children’s Hospital, ‡University of Cincinnati

P351  Effects of Loss of Endothelial PPAR Activity in Offspring Born from AVP-induced Preeclamptic Pregnancies
Anand R. Nair, Masashi Mukohda, Jeremy A. Sandgren

P353  Differential Vasopressin Receptor 33 Expression on CD4+ T Cells from Mouse and Human Preeclamptic Pregnancies
Sabrina M. Scroggins, Donna A. Santillan, Jenna M. Peterson, Nicole A. Pearson, Jeremy A. Sandgren, Eric J. Devor, Daffney T. Gomendoza, Gary L. Pierce, Justin L. Grobe, Mark K. Santillan, University of Iowa, Carver College of Medicine, Iowa City, Iowa

P354  Reduced Expression of Regulator of G-Protein Signaling-2 (RGS2) in the Placenta During Preeclampsia
Katherine J. Perschbacher, Donna A. Santillan, Eric J. Devor, Sabrina M. Scroggins, Jeremy A. Sandgren, Gary L. Pierce, Mark K. Santillan, Rory A. Fisher, Katherine N. Gibson-Corley, Justin L. Grobe, University of Iowa, Iowa City, Iowa

P355  Vasopressin Induces Discrete Symptoms of Preeclampsia Through Receptor- and Gestational Age-specific Mechanisms
Jeremy A. Sandgren, Danny W. Linggomegoro, Nicole A. Pearson, Katherine J. Perschbacher, Donna A. Santillan, Sabrina M. Scroggins, Katherine N. Gibson-Corley, Gary L. Pierce, Mark K. Santillan, Justin L. Grobe, University of Iowa, Iowa City, Iowa

P356  DNA Methylation and Differences in Blood Pressure Levels in Monozygotic Twins

P357  Dietary Salt and Non-Salt Components Have Substantial Effects on Genome-Wide DNA Methylation Patterns in Dahl SS Rats

P358  Maternal Diet Leads to Nephron Count Differences After Postnatal Day 14 and Time-dependent Differences in Apoptosis and Unfolded Protein Response in Dahl Salt-sensitive Rats
Erwin T. Cabacungan, Pediatrics, Medical Coll of Wisconsin, Milwaukee, Wisconsin; Aron M. Geurts, David L. Mattson, Liang Mingyu, Center of Systems Molecular Medicin, Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin

P359  Stability of DNA Methylation Profiles in Human DNA Samples in Long Term Storage
Yingchuan Li, Center of Systems Molecular Medicine, Department of Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Srividy Kidambi, Department of Medicine, Medical College of Wisconsin, Milwaukee, Wisconsin; Pengyuan Liu, Michelle L. Leitll, Yong Liu, David L. Mattson, Allen W. Cowley Jr., Center of Systems Molecular Medicine, Department of Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Theodore A. Kotchen, Department of Medicine, Medical College of Wisconsin, Milwaukee, Wisconsin; Mingyu Liang, Center of Systems Molecular Medicine, Department of Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin

P360  PN67phox Contributes to Diurnal Blood Pressure Rhythms in Dahl Salt-sensitive Rats
Daian Chen1, Bryan Becker1, Jackson Colson1, Chunhua Jin1, Louise C. Evans2, Allen W. Cowley2, Aron Geurts2,3, David M. Pollock1, Jennifer S. Pollock1  
1Cardio-Renal Physiology & Medicine Section, Division of Nephrology, Department of Medicine, University of Alabama at Birmingham 2Department of Physiology, and 3Genome Editing Rat Resource Center, Medical College of Wisconsin
POSTER PRESENTATIONS (continued)

P361 Prevalence of Ambulatory Blood Pressure Monitoring Phenotypes in a Population-Based Sample of African Americans: the Jackson Heart Study
Authors: S. Justin Thomas1, John N. Booth Ill1, Samantha Bromfield1, Samantha R. Seals2, Tanya Spruill3, Gbenga Ogedebege3, Srividya Kidambi4, Daichi Shimbo5, David Calhoun5, Paul Muntner1
Affiliations: 1Department of Epidemiology, University of Alabama at Birmingham, Birmingham, AL, 2Center of Biostatistics & Bioinformatics, University of Mississippi Medical Center, Jackson, MS, 3Department of Population Health, New York University School of Medicine, New York City, NY, 4Department of Medicine, Medical College of Wisconsin, Milwaukee, WI, 5Department of Medicine, Columbia University, New York City, NY.

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1 University of Alabama at Birmingham, Birmingham, AL, 2 Columbia University, New York, NY.

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Dan Wang 1, Cheng Wang 1, Hypertension, Kidney and Vascular Res Ctr, Georgetown Univ, Washington, DC; Cuwei Wang 2, Chenglong Liu 2, Div of Infectious Disease and WIHS Program, Georgetown Univ, Washington, DC; Jennifer Verbessy 3, Transplant Inst, Georgetown Univ, Washington, DC; James Tomlinson 4, James Leiper 4, MRC Clinical Sciences Ctr, Imperial Coll, London, United Kingdom; Seble Kassaye 2, Div of Infectious Disease and WIHS Program, Georgetown Univ, Washington, DC; Mary Young 2, Div of Infectious Disease and WIHS Program, Georgetown Univ, Washington, DC; Christopher S. Wilcox 1, Hypertension, Kidney and Vascular Res Ctr, Georgetown Univ, Washington, DC

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P628 The Influence of Religiosity on the Embracement vs. Technology Based Distance Learning in Therapy Adherence in Patient Hypertensive
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<td>Session 1 Panel: Is it Time to Reappraise Blood Pressure Thresholds and Targets?</td>
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<td>9:45 am</td>
<td>Oral Session 12 Concurrent B Hypertension Early Career Oral Award Session</td>
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<td>10:00 am</td>
<td>Oral Session 13 Concurrent C Genetics and Epigenetics</td>
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<td>10:30 am</td>
<td>Oral Session 14 Concurrent A Immune Mechanisms of Hypertension</td>
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<td>11:00 am</td>
<td>Oral Session 15 Concurrent B Salt and Hypertension</td>
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<td>11:30 am</td>
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<td>9:45 am</td>
<td>Oral Session 19 Concurrent B Aldosterone and Hypertension</td>
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<td>10:00 am</td>
<td>Oral Session 20 Concurrent C Developmental Programming and Pregnancy Induced Hypertension</td>
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<tr>
<td>9:00 am</td>
<td>Oral Session 22 Concurrent B Aldosterone and Hypertension</td>
</tr>
<tr>
<td>9:45 am</td>
<td>Oral Session 23 Concurrent C Developmental Programming and Pregnancy Induced Hypertension</td>
</tr>
<tr>
<td>10:00 am</td>
<td>Oral Session 24 Concurrent A Renal Hemodynamic and Tubular Mechanisms of Hypertension</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Oral Session 25 Concurrent B Aldosterone and Hypertension</td>
</tr>
<tr>
<td>11:00 am</td>
<td>Oral Session 26 Concurrent C Developmental Programming and Pregnancy Induced Hypertension</td>
</tr>
</tbody>
</table>

**Legend**
- Oral Session
- Poster Session
- Breaks
- Ticketed Event

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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 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.

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