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 my.americanheart.org
Program at a Glance

**Wednesday, September 16**
- 7:00 am: Opening Remarks and Keynote Lecture presented by Dr. Gary Gibbons, Director, NHLBI
- 8:00 am: Recent Advances in Hypertension: Renal and Cardiovascular Diseases
- 10:00 am: Refreshments and Exhibits

**Thursday, September 17**
- 9:00 am: Oral Session IV: How-to Session I
- 11:30 am: Oral Session IX

**Friday, September 18**
- 9:00 am: Oral Session X
- 11:30 am: Oral Session XVI
- 2:30 pm: Oral Session XI

**Saturday, September 19**
- 8:00 am: Oral Session XVII

---

**Are You a Member?**

Did you know? Members receive even more resources than before.

Learn more today about how membership can help provide you access to the best science and professionals in your field and across multiple disciplines. Professional Membership benefits include:

- **Journal of the American Heart Association (JAHA)** — Members can save $500 on the article publication charge with a discount code for articles submitted to our new Open Access, online-only, peer-reviewed journal. Learn more at: jaha.ahajournals.org.
- **The $100 AHA research grant application fee is waived for members.**
- **Considerable savings on all AHA/ASA conferences** — Save up to $300 on individual conferences and up to $400 on Scientific Sessions, our largest annual meeting.
- **Free access to Science OnDemand™ Products** — Over $300 value.
- **Deep discounts on print subscriptions to scientific journals.**
- **Opportunity to network with peers, meet and work with experts in the field and participate on committees, writing groups and AHA-sponsored programs.**

**I’m a Member. Are You?**

“I have always valued membership in the Council for Hypertension because of the opportunity it provides for meeting and interacting with leading national and international scientists involved in both laboratory and clinical investigations of the causes and consequences of hypertension.”

— Christopher Wilcox, MD, PhD

**I’m a Member. Are You?**

“Being a member of KCVD has given me the opportunity to work and collaborate with some of the best Nephrologists and kidney specialists in the nation to advance our understanding and increase awareness of the role of the kidney in hypertension and cardiovascular disease.”

— Pablo Ortiz, PhD

**Are You?**

Stop by our Council on Hypertension booth in the registration area and receive a free gift (pullover) when you join or renew membership.

**Became a part of our international community of nearly 33,000 members…**

For more information, call (800) 787-8984 or (301) 223-2307 or email customer service at ahaonline@lww.com.

Or go to my.americanheart.org/membership and enter promo code **AFJ128ZZ**

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**Legend**

- **O**ral Session
- **H**ow-To Sessions
- **P**oster Session
- **T**icketed Event
- **B**reaks

---

**Ticketed Event**

**Restrictions apply. Visit my.americanheart.org for more information.**
Letter From the Chair

September 16, 2015

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 2015 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, cardiovascular disease and kidney dysfunction; and the most effective means for detecting, evaluating and treating high blood pressure across diverse populations.

We are very pleased to have our opening keynote lecture presented by Gary H. Gibbons, MD, Director of the National Heart, Lung, and Blood Institute (NHLBI) at the National Institutes of Health. The opening lecture will be followed by a full-day session on Recent Advances in Hypertension. Review topics include Nervous System, Immune System, Developmental Programming, Clinical Hypertension, The Endothelium, Sex and Gender Differences, Genetics and Epigenetics. This year’s program includes more concurrent sessions and new session topics such as Microbiome and Hypertension, Developmental Programming, and Sex and Gender Differences.

We hope you take full advantage of all the excellent programming throughout the conference and enjoy your time here in Washington, D.C. 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     my.americanheart.org

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Fax         (301) 223-2327 (outside the United States)
Email       ahaonline@lww.com
The American Heart Association is a national voluntary health organization whose mission is:
“Building healthier lives, free of cardiovascular diseases and stroke.”

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 2015 Scientific Sessions Program Committee

Joey Granger, PhD, FAHA, Chair, Hypertension Program Committee, University of Mississippi Medical Center, Jackson, Mississippi
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Daniel Battle, MD, FAHA, Northwestern University, Feinberg School of Medicine, Chicago, Illinois
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Augusto Montezano, MD, Institute of Cardiovascular and Medical Sciences, Glasgow, Scotland
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Ravi Nistala, MD, University of Missouri-Columbia, Columbia, Missouri
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Patrick Pagano, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania
Jennifer Pollock, PhD, University of Alabama Birmingham, Birmingham, Alabama
Sean D. Stocker, PhD, FAHA, Penn State College of Medicine, Hershey, Pennsylvania
Colin Summers, PhD, University of Florida, Gainesville, Florida
Robert Unwin, PhD, UCL Medical School, London, UK
Mary Walker, PhD, University of New Mexico, Albuquerque, New Mexico
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  L. Lee Hamm
William J. Arendshorst  Diane E. Handy
Michael Bader  Pamela Harding
Paula Barrett  Stephen B. Harrap
Daniel Battle  Raymond C. Harris
Kathleen H. Berecek  Lisa Harrison-Bernard
Anil K. Bidani  Yoshitaka Hirooka
Bina Joe  John D. Imig
Henry Black  Raouf A. Khalil
Ana M. Briones  Donald Kohan
K. Bridget Brosnihan  Jose Krieger
Nancy J. Brown  Theodore Kurtz
David A. Calhoun  Babbette LaMarca
Robert Carey  Eric Lazartigues
Dulce Casarini  Frans Leenen
Lisa A. Cassis  Scott Levick
Alejandro Chade  Ruisheng Liu
Mark Chappell  Thomas E. Lohmeier
Fernanda Colombo  Analia S. Loria
Steven Crowley  James M. Luther
J. Thomas Cunningham  Dewan S. Majid
A. Danser  Franco Mantero
Katia De Angelis  David L. Mattson
Ralf Dechend  Mariela Mendez
Donald DiPette  Francis J. Miller
Debra Diz  Kenneth D. Mitchell
Anna Dominiczak  Michael A. Moore
Satoru Eguchi  Heitor Moreno
Khalid Elased  Dominik N. Muller
Fernando Elijovich  Alberto Nasjletti
Ross Feldman  Genevieve Nguyen
Nicholas R. Ferreri  Akira Nishiyama
Gregory D. Fink  Edilamar L. Oliveira
Toshiro Fujita  Pablo A. Ortiz
John W. Funder  John W. Osborn
Michael Garrett  Suresh Palaniyandi
Kathryn M. Gauthier  Joon Park
Eric George  Janos Peti-Peterdi
Celso Gomez-Sanchez  Jennifer Pollock
Ming C. Gong  David M. Pollock
Laura V. Gonzalez Bosc  Ambra Pozzi
Romer Gonzalez-Villalobos  J. Howard Pratt
Joey Granger  Morton P. Printz
Roger Grekin  Kamal Rahmouni
Mohan Raizada
Richard N. Re
Jane Reckelhoff
Richard J. Roman
Luis Ruilope
Michael Ryan
Helio C. Salgado
Kathryn Sandberg
Paul W. Sanders
Jennifer Sasser
Ernesto Schiffrin
Tatsuo Shimosawa
Curt D. Sigmund
Heimy M. Siragy
James Sowers
Joshua Speed
David Stec
Jan Staessen
Johannes Stegbauer
Sean D. Stocker
Jennifer C. Sullivan
Colin Summers
Zhongjie Sun
Stefano Taddei
Ann Tallant
Stephen C. Textor
Rhian Touyz
Raymond Townsend
Paolo Verdecchia
Massimo Volpe
Richard D. Wainford
Donna Wang
Stephanie W. Watts
R. Clinton Webb
Michael A. Weber
Myron H. Weinberger
Matthew Weir
William J. Welch
Ulrich Wenzel
Adam T. Whaley-Connell
Robert E. Widlop
J. Michael Wyss
Xueying Zhao
Irving H. Zucker
### Room Locator

#### Tuesday, September 15

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<tr>
<th>Time</th>
<th>Event</th>
<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>Committee Room</td>
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#### Wednesday, September 16

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<td>7:00 AM–6:00 PM</td>
<td>Speaker Resource Room</td>
<td>Committee Room</td>
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<tr>
<td>7:00 AM–3:30 PM</td>
<td>Exhibits</td>
<td>Ambassador Ballroom</td>
</tr>
<tr>
<td>8:00–9:00 AM</td>
<td>Session I: Opening Remarks and Keynote Lecture</td>
<td>Regency Ballroom</td>
</tr>
<tr>
<td>9:00–10:00 AM</td>
<td>Session II: Recent Advances in Hypertension: Nervous System</td>
<td>Regency Ballroom</td>
</tr>
<tr>
<td>10:00–10:30 AM</td>
<td>Refreshments and Exhibits</td>
<td>Ambassador Ballroom</td>
</tr>
<tr>
<td>10:30–11:30 AM</td>
<td>Session III: Recent Advances in Hypertension: Genetics and Epigenetics</td>
<td>Regency Ballroom</td>
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<tr>
<td>11:30 AM–12:30 PM</td>
<td>Lunch Break (boxed lunches)</td>
<td>Ambassador Ballroom</td>
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<tr>
<td>12:00–1:30 PM</td>
<td>TAC Mentoring Luncheon</td>
<td>Executive Room</td>
</tr>
<tr>
<td>12:30–1:30 PM</td>
<td>Session IV: Recent Advances in Hypertension: Endothelial Factors</td>
<td>Regency Ballroom</td>
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<tr>
<td>1:30–2:30 PM</td>
<td>Session V: Recent Advances in Hypertension: Clinical Hypertension</td>
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<tr>
<td>2:30–3:30 PM</td>
<td>Session VI: Recent Advances in Hypertension: Gender and Cardiovascular Diseases</td>
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<tr>
<td>3:30–4:00 PM</td>
<td>Refreshments and Exhibits</td>
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<tr>
<td>4:00–5:00 PM</td>
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<tr>
<td>5:00–6:00 PM</td>
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<tr>
<td>6:00–9:00 PM</td>
<td>Poster Session I (for Trainees) with Reception</td>
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#### Thursday, September 17

<table>
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<th>Time</th>
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<td>7:00 AM–6:00 PM</td>
<td>Speaker Resource Room</td>
<td>Committee Room</td>
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<td>7:00 AM–3:30 PM</td>
<td>Exhibits</td>
<td>Ambassador Ballroom</td>
</tr>
<tr>
<td>7:00–8:00 AM</td>
<td>How-to Session I: How to do Computational Modeling</td>
<td>Diplomat Ballroom</td>
</tr>
<tr>
<td>7:00–8:00 AM</td>
<td>How-to Session II: How to Accurately Measure Cardiac Function</td>
<td>Regency Ballroom</td>
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<tr>
<td></td>
<td>Oral Session IX</td>
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<tr>
<td>8:00–10:00 AM</td>
<td>Concurrent A: Inflammation, Immunity and Cytokines I</td>
<td>Regency Ballroom</td>
</tr>
<tr>
<td>8:00–10:00 AM</td>
<td>Concurrent B: Obesity and Metabolic Syndrome</td>
<td>Diplomat Ballroom</td>
</tr>
<tr>
<td>8:00–10:00 AM</td>
<td>Concurrent C: Renin Angiotensin System I</td>
<td>Empire Ballroom</td>
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<tr>
<td>10:00–10:30 AM</td>
<td>Refreshments and Exhibits</td>
<td>Ambassador Ballroom</td>
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<tr>
<td></td>
<td>Oral Session X</td>
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<tr>
<td>10:30 AM–12:00 PM</td>
<td>Concurrent A: Microbiota and Hypertension</td>
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<tr>
<td>10:30 AM–12:00 PM</td>
<td>Concurrent B: Neurogenic Mechanisms</td>
<td>Diplomat Ballroom</td>
</tr>
<tr>
<td>10:30 AM–12:00 PM</td>
<td>Concurrent C: Pregnancy and Preeclampsia I</td>
<td>Empire Ballroom</td>
</tr>
<tr>
<td>12:00 PM–1:00 PM</td>
<td>Lunch on your own</td>
<td>Regency Ballroom</td>
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<tr>
<td>1:00–2:30 PM</td>
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<tr>
<td>2:30–3:00 PM</td>
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<td></td>
<td>Oral Session XII</td>
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<td>3:30–5:00 PM</td>
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<tr>
<td>3:30–5:00 PM</td>
<td>Concurrent B: Top Trainee Oral Abstracts</td>
<td>Diplomat Ballroom</td>
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### Room Locator (continued)

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<th>Time</th>
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<th>Location</th>
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<tr>
<td>5:00–5:20 PM</td>
<td>XIII Awards Session</td>
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<tr>
<td>5:20–5:40 PM</td>
<td>Irvine Page-Alva Bradley Lifetime Achievement Award Presentation</td>
<td>Regency Ballroom</td>
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<tr>
<td>5:40–5:55 PM</td>
<td>Mid-Career Award winner</td>
<td>Regency Ballroom</td>
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<tr>
<td>5:55–6:10 PM</td>
<td>Harry Goldblatt Award winner</td>
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<tr>
<td>6:10–6:30 PM</td>
<td>Australian Council Young Investigator</td>
<td>Regency Ballroom</td>
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<tr>
<td>7:00–11:00 PM</td>
<td>British Hypertension Society Young Investigator</td>
<td>Palladian Ballroom</td>
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<td>7:00 AM–7:00 PM</td>
<td>Registration</td>
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<td>Exhibits</td>
<td>Ambassador Ballroom</td>
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<tr>
<td>7:00–8:00 AM</td>
<td>How-To Session III How to Build your Research Profile</td>
<td>Regency Ballroom</td>
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<tr>
<td>8:00–8:30 AM</td>
<td>Donald Seldin Lecture</td>
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<tr>
<td>8:30–10:00 AM</td>
<td>Concurrent A: The Kidney and Hypertension I</td>
<td>Regency Ballroom</td>
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<td>8:30–10:00 AM</td>
<td>Concurrent B: Vascular Biology I</td>
<td>Diplomat Ballroom</td>
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<td>8:30–10:00 AM</td>
<td>Concurrent C: Inflammation, Immunity and Cytokines II</td>
<td>Empire Ballroom</td>
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<tr>
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<tr>
<td>12:30–2:00 PM</td>
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<tr>
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<td>Concurrent A: Oxidative Stress I</td>
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<td>3:30–5:00 PM</td>
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<td>5:00–5:15 PM</td>
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<tr>
<td>6:00–6:15 PM</td>
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<td>Regency Ballroom</td>
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<tr>
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<td>Reception for Excellence Award in Hypertension Research</td>
<td>Blue Room Terrace</td>
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<tr>
<td>8:00–10:00 PM</td>
<td>Dinner for Excellence Award in Hypertension Research</td>
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### Friday, September 18

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<th>Time</th>
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<tr>
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<tr>
<td>3:30–5:00 PM</td>
<td>Concurrent A: Oxidative Stress I</td>
<td>Regency Ballroom</td>
</tr>
<tr>
<td>3:30–5:00 PM</td>
<td>Concurrent B: Salt and Hypertension I</td>
<td>Diplomat Ballroom</td>
</tr>
<tr>
<td>5:00–5:15 PM</td>
<td>Refreshments and Exhibits</td>
<td>Ambassador Ballroom</td>
</tr>
<tr>
<td>5:15–6:00 PM</td>
<td>Session XVII: The Excellence Award in Hypertension Research</td>
<td>Regency Ballroom</td>
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<tr>
<td>7:30–8:00 PM</td>
<td>Reception for Excellence Award in Hypertension Research</td>
<td>Blue Room Terrace</td>
</tr>
<tr>
<td>8:00–10:00 PM</td>
<td>Dinner for Excellence Award in Hypertension Research</td>
<td>Blue Room</td>
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### Saturday, September 19

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>5:00–5:20 PM</td>
<td>Irvine Page-Alva Bradley Lifetime Achievement Award Presentation</td>
<td>Regency Ballroom</td>
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<tr>
<td>5:20–5:40 PM</td>
<td>Mid-Career Award winner</td>
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<tr>
<td>5:40–5:55 PM</td>
<td>Harry Goldblatt Award winner</td>
<td>Regency Ballroom</td>
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<tr>
<td>5:55–6:10 PM</td>
<td>Australian Council Young Investigator</td>
<td>Regency Ballroom</td>
</tr>
<tr>
<td>6:10–6:30 PM</td>
<td>British Hypertension Society Young Investigator</td>
<td>Palladian Ballroom</td>
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<td>7:00 AM–12:00 PM</td>
<td>Registration</td>
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<td>7:00–11:30 AM</td>
<td>Speaker Resource Room</td>
<td>Committee Room</td>
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<td>8:00–8:30 AM</td>
<td>Dahl Award Lecture</td>
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<td>8:30–10:00 AM</td>
<td>Concurrent A: Vascular Biology II</td>
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<tr>
<td>8:30–10:00 AM</td>
<td>Concurrent B: Kidney and Hypertension II</td>
<td>Diplomat Ballroom</td>
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<tr>
<td>8:30–10:00 AM</td>
<td>Concurrent C: Oxidative Stress II</td>
<td>Empire Ballroom</td>
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<td>10:00–10:30 AM</td>
<td>Refreshments</td>
<td>Ambassador Ballroom</td>
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<tr>
<td>10:30 AM–12:00 PM</td>
<td>Concurrent A: Preeclampsia and Developmental Programming of Hypertension</td>
<td>Regency Ballroom</td>
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<tr>
<td>10:30 AM–12:00 PM</td>
<td>Concurrent B: Aldosterone, Its Receptors and Other Hormones</td>
<td>Diplomat Ballroom</td>
</tr>
<tr>
<td>10:30 AM–12:00 PM</td>
<td>Concurrent C: Salt and Hypertension II</td>
<td>Empire Ballroom</td>
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Conference Summary

The American Heart Association’s Hypertension 2015 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.
Program Information (continued)

Conference Highlights

Opening Session and Keynote Lecture
Please join us on Wednesday, Sept. 16 at 8:00 AM for the opening session of the Council on Hypertension 2015 Scientific Sessions featuring American Heart Association President Mark Creager, MD, FAHA. Gary H. Gibbons, MD, director of the National Heart, Lung, and Blood Institute at the National Institutes of Health, will give the keynote address Building on the NHLBI Legacy of Hypertension Research: Charting Our Future Together. Be sure to join us for this session in the Regency Ballroom.

How-To Sessions
How-to sessions will be offered on Thursday, Sept. 17 and Friday, Sept. 18 from 7:00–8:00 AM. These informal, interactive and in-depth sessions are designed to benefit trainees and early-career attendees, but are open to all conference attendees.

Thursday, September 17

7:00–8:00 AM  How-to Session I: How to Approach Computational Modeling  Daniel Beard, PhD, Professor, University of Michigan, Ann Arbor, Michigan  Diplomat Ballroom

7:00–8:00 AM  How-to Session II: How to Accurately Measure Cardiac Function by Echocardiography  Elizabeth F. McIlwain, MHS, RCS, FASE, Cardiovascular Ultrasound Consultant, Harvey, Louisiana  Regency Ballroom

Friday, September 18

7:00–8:00 AM  How-to Session III: How to Build your Research Profile: Lessons in Publishing and Funding  Anna Dominiczak, OBE, MD, FRCP, FRSE, Editor-in-Chief, Hypertension, University of Glasgow, Glasgow, UK  Jane F. Reckelhoff, PhD, FAHA, Professor, University of Mississippi Medical Center, Jackson, Mississippi  Regency Ballroom

Reception and Poster Session Featuring Trainees
Wednesday, Sept. 16, 6:00–9:00 PM  Regency Ballroom
The annual gathering takes place after the recent advances sessions at 6:00 PM. This year’s poster session will highlight poster presentations by trainees and feature an onsite 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, Sept. 17, 5:00–6:30 PM  Regency Ballroom
This special session will feature a number of presentations including this year’s Lifetime Achievement awardee, Mid-Career Awardee, The Harry Goldblatt New Investigator Awardee, Australian Council Young Investigator Awardee and the British Hypertension Society Awardee. See pages 11 for a listing of all awardees and join us for this special session.

Council on Hypertension Annual Business Meeting and Conference Awards Luncheon
Friday, Sept. 18, 12:30–2:00 PM  Palladian Ballroom
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 2015 lecture award winners, the winners of the New Investigator Awards and the winner of the 2015 Harry Goldblatt New Investigator Award. 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 2015 award winners can be found on pages 11–13.
Program Information (continued)

Trainee/Early Career Focused Events
Join us for events geared toward early career attendees at the conference. Events include:

- Wednesday, Sept. 16, 6:00–9:00 PM
  Poster Session I featuring Trainees
- Thursday, Sept. 17 and Friday, Sept. 18, 7:00–8:00 AM
  How-to Sessions
- Thursday, Sept. 17, 3:30 PM
  Top Trainee Oral Abstract 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, Sept. 17, 7:00 PM
  Trainee Advocacy 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 capacity 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 trainee oral and poster presentation awards and mixer event.

Excellence Award in Hypertension Research
Supported by a grant from Novartis Pharmaceuticals Corporation
The events for this prestigious award take place Friday afternoon beginning with the lecture at 5:15 PM. Join us for a conference-wide reception from 7:30 to 8:00 PM to honor this year’s recipients, Costantino Iadecola, MD and Pedro A. Jose, MD, PhD. 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 the Ambassador Ballroom beginning Wednesday, Sept. 16, at 7 AM. Please take a moment to visit our exhibitors. Refreshments/coffee will also be available in the Ambassador Ballroom in the morning and during breaks.

Exhibitor Hours:
- Wednesday, Sept. 16, 7:00 AM–3:30 PM
- Thursday, Sept. 17, 7:00 AM–5:30 PM
- Friday, Sept. 18, 7:00 AM–5:15 PM
The Council on Hypertension is pleased to present . . .

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

Friday September 18, 2015

Gastro-Renal Communication: Role in Hypertension
Pedro A. Jose, MD, PhD, FAHA
Professor, The George Washington School of Medicine and Health Sciences, Washington, DC

Hypertensive Cerebral Microangiopathy and Alzheimer’s Disease: Small Vessels, Big Tolls
Costantino Iadecola, MD
Anne Parrish Tizell Professor of Neurology and Neuroscience, Director (Chair), Feil Family Brain and Mind Research Institute, Weill Cornell Medical College, New York, New York

Lectures
5:15 PM
Regency Ballroom

Reception
7:30 PM
Blue Room Terrace

Dinner
8:00 PM
Blue Room
Pre-registration or invitation only (ticket required for entrance)
Program Information (continued)

Conference Awards

Irvine Page — Alva Bradley Lifetime Achievement Award
Christine Baylis, PhD, Director, University of Florida Hypertension Center, University of Florida, Gainesville, Florida
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 Christine Baylis, PhD. Please join us for the presentation on Thursday, Sept. 17, at 5:00 PM in the Regency Ballroom.

Arthur C. Corcoran Memorial Lecture
S. Ananth Karumanchi, MD, Professor, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts
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 Professor S. Ananth Karumanchi, MD on Thursday, Sept. 17, 2:30–3:00 PM.

The Lewis K. Dahl Memorial Lecture
Dr. Bernardo Rodríguez-Iturbe, MD, PhD, Professor of Medicine and Director of the Renal Service in the Hospital Universitario and Instituto Venezolano de Investigaciones Científicas (IVIC) Zulia, Maracaibo, Venezuela
The Lewis K. Dahl Memorial Lecture was established in 1988 by the Council for Hypertension in honor of Dr. Dahl's pioneering work on the relations between salt, the kidney and hypertension, and the establishment of a major genetically based experimental model of hypertension, the Dahl salt-sensitive rat. Dr. Bernardo Rodríguez-Iturbe, MD, PhD will present the lecture this year on Saturday, Sept. 19 from 8:00–8:30 AM.

The Harriet Dustan Award
Rhian Touyz, MBBCh, MSc(Med), PhD, FRCP, FRSE, FAHA, Director of Research Institute/Professor, Institute of Cardiovascular and Medical Sciences, University of Glasgow, Glasgow, UK
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, Rhian Touyz, MBBCh, MSc(Med), PhD, FRCP, FRSE, FAHA will present her lecture on Friday, Sept. 18 from 10:30–11:00 AM.

The Donald Seldin Lecture
Moshe Levi, MD, FAHA, Professor, University of Colorado Denver, Aurora, Colorado
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 Moshe Levi, MD, FAHA on Friday, Sept. 18, 8:00–8:30 AM.

Mid-Career Award for Research Excellence
Kamal Rahmouni, PhD, FAHA, Associate Professor, University of Iowa, Iowa City, Iowa
This award recognizes a mid-career investigator active in hypertension or cardiovascular research. This year’s winner, Kamal Rahmouni, PhD, FAHA, was selected for his major contributions to the field of hypertension. He will present on Thursday, Sept. 17 from 5:20–5:40 PM.
American Heart Association Awards

The Council on Hypertension is pleased to honor John E. Hall, PhD, FAHA, who was awarded the American Heart Association’s Meritorious Achievement Award for his many scientific contributions at its annual awards luncheon in Dallas on June 24. Hall was recognized for more than four decades of outstanding service to improve the prevention, treatment and awareness of hypertension as a risk factor for the development of cardiovascular diseases and stroke. Hall, a past editor-in-chief of the association’s journal Hypertension, is the Arthur C. Guyton Professor and chair in the department of physiology and biophysics at the University of Mississippi Medical Center in Jackson.

The Harry Goldblatt New Investigator Award
Sponsored by the Council on Hypertension

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

The award is named after Dr. Harry Goldblatt, a pathologist who established the first animal model of hypertension in 1934. This model provided researchers with the tools to delineate the renin-angiotensin system of blood pressure control and, eventually, to design enzyme inhibitors for the treatment of chronic hypertension. This year’s winner, Justin L. Grobe, PhD, FAHA, assistant professor of pharmacology, University of Iowa, Iowa City, will present on Thursday, Sept. 17 from 5:30–5:50 PM.

Australian High Blood Pressure Research Council Australia Young Investigator Award

Katrina Mirabito, Monash University, Melbourne, Australia, winner of the HBPRCA to American Heart Association – High Blood Pressure Research Award will present her abstract, Treatment With the Mas Receptor Agonist, AVE-0991, Restores the Normal Regulation of Arterial Pressure in ACE2 Deficient Mice, on Thursday, Sept. 17 from 5:50–6:10 PM.

British Hypertension Society Young Investigator Award

Keith Siew BSc (Hons), MSc, NQEMT, Addenbrooke’s Hospital, Cambridge, UK 2014, winner of the BHS Young Investigator Prize will present his abstract, Gitelman & Gordon – Mirror Image Syndromes Reveal the Roles of WNKs in Blood Pressure Homeostasis and Novel Anti-hypertensive Targets on Thursday, Sept. 17 from 6:10–6:30 PM.

Your invitation to submit to

JAHA – Journal of the American Heart Association

Submit at: jaha-submit.aha-journals.org

Rapid publication—Articles are online within 4 weeks of acceptance after payment of the article publication charge

Fully compliant with Open Access mandates—JAHA meets the requirements of funding organizations and institutions

Discounted article publication charges for AHA/ASA members—Find out more online

JAHA offers you the ability to present all aspects of your work—No restrictions on article length and unlimited use of color images and video

Indexed widely—Searchable in MEDLINE® and indexed in Thomson Reuters Science Citation Index Expanded™. See a complete list of where JAHA is indexed at jaha.ahajournals.org
**Abstract Awards**

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

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<tr>
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<th>Day/Time</th>
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<tr>
<td>Larry Agbor, PhD</td>
<td>065</td>
<td>September 18, 8:30 AM</td>
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<td>Imad Al Ghouleh, PhD</td>
<td>096</td>
<td>September 18, 3:45 PM</td>
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<tr>
<td>Saeed Alshahrani, MS</td>
<td>115</td>
<td>September 19, 9:00 AM</td>
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<tr>
<td>Lorena Amaral, PhD</td>
<td>076</td>
<td>September 18, 9:45 AM</td>
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<tr>
<td>Christopher Chan</td>
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<td>September 18, 9:15 AM</td>
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<tr>
<td>Denise Cornelius, PhD</td>
<td>037</td>
<td>September 17, 10:30 AM</td>
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<td>Louise Evans, MSci, MSc, PhD</td>
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<td>September 18, 4:15 PM</td>
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<tr>
<td>Ankita Bachhawat Jaykumar, MSc</td>
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<tr>
<td>Sarah Mueller</td>
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<td>Masashi Mukohda, PhD</td>
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<td>Allison Norlander</td>
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<tr>
<td>Keisuke Shinozaka, PhD</td>
<td>P061</td>
<td>September 16, 6:00 PM</td>
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**Council on Hypertension New Investigator Award**  
*Supported by the Council on Hypertension Trainee Advocacy Committee*

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<tr>
<td>Isha Dhande, PhD</td>
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<td>September 16, 6:00 PM</td>
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<tr>
<td>Jorge Giani, PhD</td>
<td>019</td>
<td>September 17, 8:30 AM</td>
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<tr>
<td>Luciana Veiras, PhD (Student)</td>
<td>114</td>
<td>September 19, 8:45 AM</td>
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<tr>
<td>Tao Yang, MS</td>
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<td>September 17, 11:30 AM</td>
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**Kidney Council New Investigator Award**  
*Supported by the Council on Kidney in Cardiovascular Disease*

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<td>Krishna Boini, PhD</td>
<td>P017</td>
<td>September 16, 6:00 PM</td>
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<tr>
<td>Pei-Lun Chu, MD, PhD</td>
<td>102</td>
<td>September 18, 3:45 PM</td>
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<tr>
<td>Fan Fan, MD</td>
<td>MP14</td>
<td>September 18, 2:00 PM</td>
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<td>Joseph Gigliotti, PhD</td>
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<td>Suttita Intapad, PhD</td>
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<td>Yoshitsugu Iwakura</td>
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<td>Keyona King-Medina, PA-C</td>
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<td>Analia Loria, PhD</td>
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<td>Oleg Palygin, PhD</td>
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<tr>
<td>Nirupama Ramkumar, MD MPH</td>
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**Top Trainee Oral Abstracts**  
**Hypertension Early Career Award Competition**

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<tr>
<td>Ellen Gillis, MS</td>
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<td>Jordan Kho</td>
<td>50</td>
<td>September 17, 3:45 PM</td>
</tr>
<tr>
<td>Hana Itani, PhD</td>
<td>51</td>
<td>September 17, 4:00 PM</td>
</tr>
<tr>
<td>Marc Mazzuca, PhD</td>
<td>52</td>
<td>September 17, 4:15 PM</td>
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<tr>
<td>Balyssa Bell</td>
<td>53</td>
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<tr>
<td>Maria Pitra</td>
<td>54</td>
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**Top Papers Published in Hypertension 2014**

**Basic**
- Henry Daniell, Mohan Raizada
- Juliette Hadchouel, Gerardo Gamba

**Clinical**
- Louise Kenny

**Population**
- Michel Joosten
- Carmen Peralta
General Information

Registration

Conference registration is located at the West Registration Desk on the lobby level of the Omni Shoreham Hotel. Pre-registered attendees can pick up their conference badges here. Please inquire here if you need a ticket for any of the ticketed events. The registration desk will be open at 2:00 PM Tuesday, Sept. 8 and will close at NOON on Saturday, Sept. 19.

Registration hours:
- Tuesday, Sept. 15: 2:00 PM–7:00 PM
- Wednesday, Sept. 16: 7:00 AM–7:00 PM
- Thursday, Sept. 17: 7:00 AM–7:00 PM
- Friday, Sept. 18: 7:00 AM–7:00 PM
- Saturday, Sept. 19: 7:00 AM–12:00 PM

Speaker Resource Room

The Speaker Resource Room is located in the Committee 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. 16, can visit the speaker ready room from 3:00–7:00 PM on 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. It is imperative that you review your presentation in the Speaker Resource Room if it contains video files or if it was created on a Macintosh computer. Staff will be available to assist with technical issues.

The Speaker Resource Room will be open during the following hours:
- Tuesday, Sept. 15: 3:00–7:00 PM
- Wednesday, Sept. 16: 7:00 AM–6:00 PM
- Thursday, Sept. 17: 7:00 AM–6:00 PM
- Friday, Sept. 18: 7:00 AM–6:00 PM
- Saturday, Sept. 19: 7:30–11:30 AM

Abstract Information

Abstracts presented at the Hypertension 2015 Scientific Sessions will be published in the Hypertension journal. It will be available at hyper.ahajournals.org. Abstracts presented at this conference can also be viewed online at my.americanheart.org/hypertensionsessions.

Abstracts 1–142 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 II and III.

Poster Session II and III will feature two 40 minute moderated poster sessions in the middle of each session. Four posters will be highlighted and attendees will be able to engage the presenters during this period.

Abstracts P001–P260, MP1–MP16 and P600–P646 will be presented as poster presentations.

See pages 34–56 for details on poster presentations

ePosters

ePosters and QR Code with Audio/Video

We are excited to offer ePosters at Hypertension 2015! 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 2015 Scientific Sessions is a scientific and educational conference for the purpose of 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 2015 are embargoed for release at the time of presentation. Information may not be released before the scheduled presentation time.

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

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

1. Non-flash photography of the speaker and his/her presentation materials is permitted by attendees or AHA/ASA accredited reports upon the prior written consent of the AHA/ASA and of the speaker.

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

Conference Photography
Please be aware that during HTN 2015, 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 2015 Scientific Sessions, no later than Sept. 30, 2015.

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 16

7:00 AM
Registration Opens
West Registration Desk

7:00 AM
Exhibits and Coffee
Ambassador Ballroom

8:00–9:00 AM
Session I
Opening Remarks and Keynote Lecture
Regency Ballroom
Moderators:
Joey Granger, PhD, FAHA,
Vice-Chair, 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
Mark Creager, MD, President,
American Heart Association

8:20 Opening Keynote Lecture: Building on the
NHLBI Legacy of Hypertension Research:
Charting Our Future Together
Gary Gibbons, MD, Director, NHLBI, National
Institutes of Health, Washington, D.C.

9:00–10:00 AM
Session II
Nervous System
Regency Ballroom
Moderator:
Gary Fink, PhD, FAHA, Associate Editor of Hypertension

9:00 Interaction Between Autonomic and
Metabolic Mechanisms that Regulate Blood
Pressure in Humans
Italo Biaggioni, MD, Vanderbilt University,
Nashville, Tennessee

9:30 Device-based Neuromodulation for Hypertension
Therapy: Mechanisms and Therapeutic
Implications
Thomas Lohmeier, PhD, University of Mississippi
Medical Center, Jackson, Mississippi

10:00–10:30 AM
Refreshments and Exhibits
Ambassador Ballroom

10:30–11:30 AM
Session III
Genetics and Epigenetics
Regency Ballroom
Moderator:
Anna Dominiczak, OBE, MD, FRCP, FRSE,
Editor-in-Chief of Hypertension

10:30 Environmental Epigenetics: A Role in
Cardiovascular Disease?
Andrea Baccarelli, MD, Harvard T. H. Chan School of
Public Health Boston, Massachusetts

11:00 Clock Genes in Hypertension: Novel Insights
from Rodent Models
Michelle Gumz, PhD, University of Florida,
Gainesville, Florida

11:30 AM–12:30 PM
Boxed Lunch and Exhibits
Ambassador Ballroom
*Lunch supported by Hypertension Journal

12:30–1:30 PM
Session IV
Endothelial Factors
Regency Ballroom
Moderator:
Ernesto Schiffrin, MD, PhD, Associate Editor of Hypertension

12:30 Why Do Inhibitors of VEGF Signaling Cause
Hypertension?
A.H. van den Meiracker, PhD, Erasmus MC,
Rotterdam, the Netherlands

1:00 Role of Endothelin in Hypertension and
Cardiorenal Diseases
Donald Kohan, MD, PhD, University of Utah,
Salt Lake City, Utah

1:30–2:30 PM
Session V
Clinical Hypertension
Regency Ballroom
Moderator:
TBD

1:30 Resistant and Refractory Hypertension:
Antihypertensive Treatment Resistance versus
Treatment Failure
David Calhoun, MD, University of Alabama at
Birmingham, Birmingham, Alabama

2:00 Sleep Apnea, Sleep Deprivation, and Obesity –
Does Sleeping Less Make You Fat?
Virend Somers, MD, Mayo Clinic,
Rochester, Minnesota

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

2:30–3:30 PM  
Session VI  
Gender and Cardiovascular Diseases  
Regency Ballroom

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

2:30  
Women and Cardiovascular Disease: Is There a Sex Difference?  
Martha Gulati, MD, MS, FACC, FAHA, The Ohio State University Wexner Medical Center

3:00  
Gender Differences in Blood Pressure Control: Physiological Mechanisms  
Jennifer Sullivan, PhD, Georgia Regents University, Augusta, Georgia

3:30–4:00 PM  
Refreshments and Exhibits  
Ambassador Ballroom

4:00–5:00 PM  
Session VII  
Developmental Programming of Cardiovascular Diseases  
Regency Ballroom

Moderator:  
Joey Granger, PhD, FAHA, Associate Editor of Hypertension

4:00  
Developmental Programming of Cardiovascular Disease  
Kent Thornburg, PhD, Oregon University Health Sciences Center, Portland, Oregon

4:30  
Developmental Programming of Hypertension: Physiological Mechanisms  
Barbara Alexander, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi

5:00–6:00 PM  
Session VI: Immune Mechanisms  
Regency Ballroom

Moderator:  
Ji-Guang Wang, MD, PhD, Associate Editor of Hypertension

5:00  
Interferon Regulatory Factor Signaling in Cardiometabolic Diseases  
Hongliang Li, MD, PhD, Wuhan University, China

5:30  
Interactions Between the Immune and Renin-angiotensin Systems in Hypertension  
Steve Crowley, MD, Duke University, Durham, North Carolina

6:00–9:00 PM  
Poster Session I  
Trainee Onsite Poster Competition and Reception  
Regency Ballroom

Posters P001–P139 will be presented during this session. It will also feature an onsite poster competition. All presenters who have not received a travel award are eligible for the competition. See page 33 for details.

THURSDAY, SEPTEMBER 16

7:00 AM  
Registration Opens  
West Registration Desk

7:00 AM  
Exhibits and Coffee  
Ambassador Ballroom

7:00–8:00 AM  
How-to Session I  
Diplomat Ballroom

Moderators:  
Fouad Zouein, PhD, Mississippi Center for Heart Research, Jackson, Mississippi  
Praveen Veerabhadrappa, PhD, University of Pennsylvania, Shippensburg, Pennsylvania

7:00  
How to Do Computational Modeling  
Daniel Beard, PhD, Professor, University of Michigan, Ann Arbor, Michigan

7:00–8:00 AM  
How-to Session II  
Regency Ballroom

Moderators:  
Aaron J. Trask, PhD, FAHA The Research Institute at Nationwide Children’s Hospital, Columbus, Ohio  
Fady Hannah-Shmouni, MD, Yale-New Haven Hospital, Yale School of Medicine, New Haven Connecticut

7:00  
How to Accurately Measure Cardiac Function by Echocardiography  
Elizabeth F. McIlwain, MHS, RCS, FASE, Cardiovascular Ultrasound Consultant, Harvey, Louisiana
8:00–10:00 AM
Oral Session IX

8:00 AM
Oral Session IX Concurrent A
Inflammation, Immunity and Cytokines I
Regency Ballroom

Moderators:
David L. Mattson, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin
Hongliang Li, Wuhan University, Wuhan, China

8:00 Mutation in the PPARγ Ligand Binding Domain Impairs the Anti-inflammatory Action of PPARγ
Masashi Mukohda, Pimonrat Ketsawatsomkron, Madeliene Stump, Frederick W. Quelle, Curt D. Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, Iowa

8:15 Dynamic T Cell-Antigen Presenting Cell Interactions and Direct T Cell Activation Within the Vascular Wall During Hypertension
Zihui Wei, Anna Wang, Iresha Spizzo, Michael J. Hickey, Robert E. Widdop, Antony Vinh, Monash Univ, Clayton, Australia

8:30 Selective Splenic Denervation Inhibits the Egression of T Cell from Spleen, Induced by Angiotensin II, and Protects from Hypertension
Daniela Carnevale, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli (IS), Italy; Marialuisa Perrotta, Fabio Pallante, Valentina Fardella, Roberta Iacobucci, IRCCS Neuromed, Pozzilli (IS), Italy; Antonella Cutrone, Sapienza Univ of Rome, Pozzilli (IS), Italy; Giuseppe Lembo, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli (IS), Italy

8:45 Splenectomy Differentially Affects Angiotensin-2 and L-NAME Murine Models of Hypertension
Joseph Gigliotti, Sylvia Cechova, Thu Le, Univ of Virginia, Charlottesville, Virginia

9:00 Axl Controls Survival of the CD4+ T Lymphocytes in Salt-dependent Hypertension
Vyacheslav A. Korshunov, Angie Hughson, Craig N. Morrell, Deborah J. Fowell, Univ of Rochester, Rochester, NY; Sri N. Batchu, Univ of Toronto, Toronto, ON, Canada

9:15 Distinct and Overlapping Roles of Cytokines IL-17A and IL-17F in Angiotensin II-induced Hypertension and End-organ Injury
Mohamed A. Saleh, Allison E. Norlander, David G. Harrison, Meena S. Madhur, Vanderbilt Univ, Nashville, Tennessee

8:00 AM
Oral Session IX Concurrent B
Obesity and Metabolic Syndrome
Diplomat Ballroom

Moderators:
Eric J. Belin de Chantemele, PhD, Georgia Regents University, Augusta, Georgia
Lisa A. Cassis, PhD, University of Kentucky, Lexington, Kentucky

8:00 Vertical Sleeve Gastrectomy Reduces Mean Arterial Blood Pressure and Hypothalamic Endoplasmic Reticulum Stress Independent of Body Weight in Mice

8:15 The Role of Angiotensin AT1A Receptors in Leptin-sensitive Cells in Resting Metabolic Rate Control
Kristin E. Claflin, Justin L. Grobe, Univ of Iowa, Iowa City, Iowa

8:30 Chronic Renal-artery Infusion of Insulin+Glucose Increases Mean Arterial Pressure in Rats
Debra L. Irsik, A. Daniel Duggan III, Rabei N. Alaisami, Georgia Regents Univ, Augusta, GA; Bonnie L Blazer-Yost, Indiana Univ-Purdue Univ Indianapolis, Indianapolis, IN; Alexander Staruschenko, Medical Coll of Wisconsin, Milwaukee, WI; Michael W. Brands, Georgia Regents Univ, Augusta, Georgia

8:45 Brain Endoplasmic Reticulum (ER) Stress Reduces Appetite and Increases Blood Pressure Independent of the Melanocortin-4 Receptor in Rats
Jussara M. do Carmo, Univ of Mississippi Medical Ctr, Jackson, MS; Alexandre A. da Silva, Ctr Univrio Barao de Maia, Ribeirao Preto/ Sao Paulo, Brazil; Jung Yoo, Sydney P. Moak, Frank Spradley, John E. Hall, Univ of Mississippi Medical Ctr, Jackson, Mississippi
Program Agenda (continued)

8:00 AM
Oral Session IX Concurrent C
Renin Angiotensin System I
Empire Ballroom

Moderators:
Daniel Batlle, MD Northwestern University Feinberg School of Medicine, Chicago, Illinois
Sarah Lindsey, PhD, Tulane University School of Medicine, New Orleans, Louisiana

8:00 Ang-(1-7) Influences ET-1 Signaling Through MAS: ETBR Interactions: Implications in Pulmonary Hypertension
Katie Y. Hood, Inst of Cardiovascular and Medical Sciences, Glasgow, United Kingdom; Hiba Yusuf, Kidney Res Ctr, Ottawa Hosp Res Inst, Univ of Ottawa, Ottawa, ON, Canada; Augusto C. Montezano, Jane E. Findlay, Inst of Cardiovascular and Medical Sciences, Glasgow, United Kingdom; Robson A. Santos

8:00 Early Life Stress Increases Susceptibility to Develop Obesity and Metabolic Syndrome in a Sex-specific Manner
Margaret Murphy, Lauren Schmuckie, David Powell, Francesc Martí, Analia Loria, Univ of Kentucky, Lexington, Kentucky

9:00 Nox1-derived ROS Impairs Internal Pudendal Artery Function via Nrf2 and Rho Kinase in Diabetic Mice
Rhéure A. Lopes, Karla B. Neves, Univ of Sao Paulo, Ribeirao Preto, Brazil; Augusto C. Montezano, Adam Harvey, Univ of Glasgow, Glasgow, United Kingdom; Fernando S. Carneiro, Univ of Sao Paulo, Ribeirao Preto, Brazil; Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom; Rita C. Tostes, Univ of Sao Paulo, Ribeirao Preto, Brazil

9:30 Increased 20-HETE Levels Contribute to Impaired Glucose Metabolism and Type 2 Diabetes in Cyp4a14 Knockout Mice Fed on High Fat Diet

9:45 Profound and Sustained Amplification of Circulating ACE2 Activity Does Not Protect Diabetic Mice from Kidney Disease
Jan Wysocki, Minghao Ye, Ahmed M. Khattab, Yashpal Kanwar, Northwestern Univ, Chicago, Illinois; Mark Osborn, Univ of Minnesota, Minneapolis, Minnesota; Daniel Batlle, Northwestern Univ, Chicago, Illinois

9:15 A Short Open Reading Frame in the Angiotensin Type 1a Receptor 5' Leader Sequence Increases the Rate of Receptor Internalization
Parnika Kadam, Susette Mueller, Hong Ji, Kathryn Sandberg, Georgetown Univ, Washington, DC

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8:15 Sox6 is a Critical Factor in Renin Cell Fate in Development and Pathology
Jose Gomez, Duke Univ, Durham, North Carolina

8:30 Specific Knockdown of Renal Tubular Epithelial Ace Prevents Salt Sensitivity
Jorge F. Giani, Dept of Biomedical Sciences. Cedars-Sinai Medical Ctr, Los Angeles, California; Sebastien Fuchs, Dept of Basic Medical Sciences, Coll of Osteopathic Med of the Pacific, Western Univ of Health Sciences, Pomona, California; Ellen A. Bernstein, Kenneth E. Bernstein, Dept of Biomedical Sciences. Cedars-Sinai Medical Ctr, Los Angeles, California; Romer A. Gonzalez-Villalobos, Pfizer Inc, DSRD CoE, Groton, Connecticut

8:45 A Mitochondrial Renin-Angiotensin System: Internalization of Angiotensinogen

9:00 Nephron Specific Deletion of the Prorenin Receptor Modulates Blood Pressure and Urinary Na+ Excretion
Nirupama Ramkumar, Deborah Stuart, Univ of Utah, Salt Lake City, Utah; Elena V. Mironova, Vladislav Bugay, Univ of Texas Health Science Ctr at San Antonio, San Antonio, Texas; Mykola Mamenko, Univ of Texas Health Science Ctr at Houston, Houston, Texas; Shuping Wang, Univ of Utah, Salt Lake City, Utah; Atsushi Ichihara, Tokyo Women's Medical Univ, Tokyo, Japan; Oleh M. Pochynyuk, Univ of Texas Health Science Ctr at Houston, Houston, Texas; James D. Stockand, Univ of Texas Health Science Ctr at San Antonio, San Antonio, Texas; Donald E. Kohan, Univ of Utah, Salt Lake City, Utah

9:15 A Short Open Reading Frame in the Angiotensin Type 1a Receptor 5' Leader Sequence Increases the Rate of Receptor Internalization
Parnika Kadam, Susette Mueller, Hong Ji, Kathryn Sandberg, Georgetown Univ, Washington, DC

9:30 Collecting Duct (Pro)Renin Receptor Mediates Angiotensin II-induced Hypertension
Fei Wang, Kexin Peng, Xiaohan Lu, Sun Yat-sen Univ, Guangzhou, China; Kevin Yang, Univ of Utah, Salt Lake City, Utah; Mi Liu, Sun Yat-sen Univ, Guangzhou, China; Adam Nau, Univ of Utah, Salt Lake City, Utah; Ren Chen,
Guangdong Provincial People's Hosp & Guangdong Acad of Medical Sciences, Guangzhou, China; Donald E Kohan, Univ of Utah and Veterans Affairs Medical Ctr, Salt Lake City, Utah; Yumei Feng, Colorado State Univ, Fort Collins, Colorado; Atsuhiro Ichihara, Tokyo Women's Medical Univ, Tokyo, Japan; Van Reese, Russell S. Richardson, Univ of Utah and Veterans Affairs Medical Ctr, Salt Lake City, Utah; Shu-Feng Zhou, Univ of South Florida, Tampa, Florida; Tian Yang, Univ of Utah and Veterans Affairs Medical Ctr, Salt Lake City, Utah

9:45 The Direct Renin Inhibitor Aliskiren Improves Vasodilation and Endothelial Function in Resistance Arteries from Diabetic and Hypertensive Patients

Carmine Savoia, Sapienza Univ of Rome, Rome, Italy; Carolina De Ciuceis, Univ of Brescia, Brescia, Italy; Emanuele Arrabito, Sapienza Univ of Rome, Rome, Italy; Anna Paini, Univ of Brescia, Brescia, Italy; Lidia Sada, Carmine Nicoletti, Raffaella Carletti, Sapienza Univ of Rome, Rome, Italy; Damiano Rizzoni, Maria Lorenza Maieus, Univ of Brescia, Brescia, Italy; Cira Di Giioia, Sapienza Univ of Rome, Rome, Italy

10:00–10:30 am

Refreshments and Exhibits

Ambassador Ballroom

10:30 AM–NOON

Oral Session X

10:30 AM

Oral Session X Concurrent A

Microbiota and Hypertension

Regency Ballroom

Moderators:

Dominik N Muller, PhD, Max-Delbruck Ctr and Clinical Experimental Res Ctr, Berlin, Germany
Bina Joe, PhD, FAHA, University of Ohio, Toledo, Ohio

10:30 Evidence for a Link between Gut Microbiota and Hypertension in the Dahl Rat Model

Blair Mell, Univ of Toledo, Toledo, Ohio; Venkatakrishna R. Jala, Univ of Louisville, Louisville, Kentucky; Anna V. Mathew, Jaeman Byun, Univ of Michigan, Ann Arbor, Michigan; Harshal Waghule, Youjie Zhang, Univ of Toledo, Toledo, Ohio; Bodduluri Haribabu, Univ of Louisville, Louisville, Kentucky; Matam Vijay-Kumar, The Pennsylvania State Univ, University Park, Pennsylvania; Subramaniam Pennathur, Univ of Michigan, Ann Arbor, Michigan; Bina Joe, Univ of Toledo, Toledo, Ohio

10:45 Gut Bacteria Metabolite Attenuates Ang II-induced Cardiac Damage

Nicola Wilck, Hendrik Bartolomaeus, Andreas Balogh, Lajos Marko, Ralf Dechend, Experimental and Clinical Res Ctr, Berlin, Germany; Dominik N. Müller, Max-Delbrück-Ctr for Molecular Med, Experimental and Clinical Res Ctr, Berlin, Germany

11:00 Intestinal Permeability and Dysbiosis are Linked to Hypertension

Monica M. Santisteban, Andres Rubiano, Daniel Stewart, Tao Yang, Colleen T. Cole-Jeffrey, Michael B. Zingler, Gilberto O. Lobaton, Vinayak Shenoy, Jasenka Zubcevic, Chelsey S. Simmons, Mohan K. Raizada, Univ of Florida, Gainesville, Florida

11:15 ACE2 Activator, Diminazene, Rebalances Gut Microbial Dysbiosis and Attenuates Pulmonary Hypertension

Vinayak Shenoy, Tao Yang, Andres Rubiano, Dominic Guzzo, Alana Horowitz, Monica Santisteban, Anandharajan Rathinasabapathy, Chelsey Simmons, Michael Katovich, Mohan Raizada, Univ of Florida, Gainesville, Florida

11:30 Reduced Bone Marrow Adrenergic Receptor Signaling Modulates Inflammatory Factors and Alters Gut Microbiota

Tao Yang, Eric Li, Niousha Ahmari, Jessica Carvajal, Monica Santisteban, Seungbum Kim, Mohan Raizada, Jasenka Zubcevic, Univ of Florida, Gainesville, Florida

11:45 Microbial Short Chain Fatty Acid (SCFA) Metabolites Lower Blood Pressure (BP) via Endothelial G-protein Coupled Receptor 41 (gpr41)

Niranjana Natarajan, Dajjiri Hori, Dan E. Berkowitz, Jennifer L. Pluznick, Johns Hopkins Univ, Baltimore, Maryland

10:30 AM

Oral Session X Concurrent B

Neurogenic Mechanisms

Diplomat Ballroom

Moderators:

Ida T. Fonkoue, Michigan Technological Univ, Houghton, MI
Lisette C. Michelini, University of Sao Paulo, Sao Paulo, SP, Brazil

10:30 Endoplasmic Reticulum (ER) Stress in the Subfornical Organ (SFO) Induces Peripheral Inflammation by Altering Autonomic Output

Heinrich E. Lob, Jiunn Song, Alvin Chung, Scott D. Butler, Cornell Univ, Ithaca, NY; Allyn L. Mark, Univ of Iowa, Iowa City, Iowa; Robin L. Davison, Cornell Univ, Ithaca, New York
### Program Agenda (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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<td>Placental Growth Factor Supplementation Abolishes Placental Ischemia-induced Hypertension</td>
<td>Frank T. Spradley, Univ of Mississippi Medical Ctr, Jackson, Mississippi; Adeline Y. Tan, Woo S. Joo, Garrett Daniels, Paul Kussie, Aggamin Biologics, New York, New York; S. Ananth Karumanchi, Beth Israel Deaconess Medical Ctr, Harvard Medical School, Massachusetts; Joey P. Granger, Univ of Mississippi Medical Ctr, Jackson, Mississippi</td>
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<td>Normalization of Uterine Interleukin (IL)-15 in the BPH/5 Preeclamptic Mouse Improves Decidual Natural Killer Cell Activation at the Maternal-Fetal Interface</td>
<td>Jenny L. Sones, Christa Heyward, Dominique Lessard, Scott Butler, Heinrich Lob, Robin L. Davison, Cornell Univ, Ithaca, New York</td>
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<td>Complement Activation in Placental Ischemia-induced Hypertension is Not Dependent on Endothelin A Receptor Activation</td>
<td>Jean F. Regal, Megan E. Strehlke, Barbara J. Elmquist, Jeffrey S. Gilbert, Univ of Minnesota Medical Sch Duluth, Duluth, Minnesota</td>
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<td>10:30</td>
<td>Oral Session X Concurrent C Pregnancy and Preeclampsia I Empire Ballroom</td>
<td>Moderators: Jennifer Sasser, PhD, University of Mississippi, Jackson, Mississippi; Ralf Dechend, MD, Charité - Universitätsmedizin Berlin, Berlin, Germany</td>
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<td>A Role for IL-17 to Activate Cytolytic Natural Killer Cells in Response to Placental Ischemia</td>
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<td>10:45</td>
<td>32 registrar TLR4 Mediate Angiotensin II-induced Reactive Oxygen Species Production within the Paraventricular Nucleus in Hypertension</td>
<td>Vinicia C. Biancardi, Javier E. Stern, Georgia Regents Univ, Augusta, Georgia</td>
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<td>11:00</td>
<td>Neuronal Knock-out of AT1 Receptor Attenuates the Development of Doca-salt-induced Hypertension</td>
<td>Jiaxi Xu, Srinivas Srimula, Eric Lazartigues, Louisiana State Univ Health Sciences Ctr, New Orleans, Louisiana</td>
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<td>11:15</td>
<td>Opposite Effects of Hypertension and Training on Blood Brain Barrier Integrity in Autonomic Areas of the Spontaneously Hypertensive Rat</td>
<td>Lisete C. Micheli, Maria T. Jordao, Alexandre Ceroni, Leila Buttler, Univ of Sao Paulo, Sao Paulo, SP, Brazil</td>
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<td>11:30</td>
<td>Differential Sodium-evoked Activation of Pvn Magnocellular vs. Parvocellular Neurons in Rats Lacking Central Gal-SUB.2 Proteins Contributes to Sustained Elevations in Blood Pressure</td>
<td>Casey Y. Carmichael, Richard D. Wainford, Boston Univ Sch of Med, Boston, Massachusetts</td>
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<td>11:45</td>
<td>Family History of Hypertension and Sympathetic Neural Reactivity to Mental Stress in Humans</td>
<td>Ida T. Fonkoue, Min Wang, Jason R. Carter, Michigan Technological Univ, Houghton, Michigan</td>
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<td>11:30</td>
<td>Elevated Circulating Copeptin in Mid-Gestation is Associated with Increased Aortic Stiffness and Vascular Endothelial Dysfunction in Pregnant Women at High Risk for Preeclampsia</td>
<td>Gary L. Pierce, Donna A. Santillan, Diedre Fleener, Sabrina M. Scroggins, Kimberly K. Leslie, Stephen K. Hunter, Justin L. Grobe, Curt D. Sigmund, William G. Haynes, Mark K. Santillan, Univ of Iowa, Iowa City, Iowa</td>
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<td>11:45</td>
<td>Cd74-dysregulation of Macrophage-trophoblastic Interactions in the Preeclamptic Placenta</td>
<td>Lukasz Przybyl, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Nadine Haase, Max-Delbrueck Ctr for Molecular Med in the Hemholtz Association, Berlin, Germany; Michaela Golic, Julianna Rugor, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Maria E. Solano, Petra C Arck, Univ Medical Ctr Hamburg-Eppendorf, Hamburg, Germany; Martin Gauster, Berthold Huppertz, Medical Univ of Graz, Graz, Austria; Jürgen Bernhagen, RWTH Aachen Univ, Aachen, Germany; Richard Bucala, Yale Univ Sch of Med, New Haven, CT; Friedrich C. Luft, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Anne C. Staff, Oslo Univ Hosp, Oslo, Norway; Dominik N. Mueller, Max-Delbrueck Ctr for Molecular Med in the Hemholtz Association, Berlin, Germany; Ralf Dechend, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Florian Herse, Max-Delbrueck Ctr for Molecular Med in the Hemholtz Association, Berlin, Germany</td>
<td></td>
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</table>
Program Agenda (continued)

12:00–1:00 PM
Lunch on your own
Exhibits
Ambassador Ballroom

1:00–2:30 PM
Poster Session II
Regency Ballroom

Posters P140–P200, P600–P627 and MP01–MP08 will be presented during this session. See page 33 for details.

2:30–3:00 pm
Session XI
Arthur C. Corcoran Memorial Lecture
Regency Ballroom

Moderator:
Friedrich C. Luft, MD, Charité Medical Faculty, Berlin, Germany

2:30
Angiogenic Factors in Preeclampsia and Cardiovascular Disease
Professor S. Ananth Karumanchi, MD, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts

3:00–3:30 PM
Refreshments and Exhibits
Ambassador Ballroom

3:30–5:00 PM
Oral Session XII

3:30 PM
Oral Session XII Concurrent A
Genetics and Epigenetics
Regency Ballroom

Moderators:
Mingyu Liang, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin
Alison J. Kriegel, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

3:30
A Gwas Prioritized Candidate Gene, Nr2f2, Attenuates Salt-sensitive Hypertension and Associated Renal Function
Sivarajan Kumarasamy, Harshal Waghulde, Blair Mell, Bina Joe, Program in Physiological Genomics, Ctr for Hypertension and Personalized Med, Dept of Physiology and Pharmacology, Univ of Toledo Coll of Med and Life Sciences, Toledo, Ohio

3:45
Pappa2 is Linked to Salt-sensitive Hypertension in Dahl SS Rats
Alien W. Cowley Jr., Chun Yang, Vikash Kumar, Jozef Lazar, Howard Jacob, Aron M. Geurts, Pengyuan Liu, Alex Dayton, Theresa Kurth, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, Wisconsin

4:00–4:15 PM
Poster Session II Concurrent A

4:00
Epigenetic Modification of Brain (pro)renin Receptor Contributes to the Development of Doca-salt Hypertension via Epithelial Sodium Channel
Wencheng Li, Yumei Feng, Univ of Nevada-Reno, Reno, Nevada

4:15
Deep Sequencing in mpkCCD Collecting Duct Cells Identifies Transcriptional Response to Vasopressin
Pablo Sandoval, Jae Wook Lee, J’Neka Claxton, Jason D. Hoffert, Mark A. Knepper, NHLBI, Bethesda, Maryland

4:30–5:00 PM
Oral Session XII Concurrent B
Top Trainee Oral Abstracts
Diplomat Ballroom

Moderators:
Aaron J. Trask, PhD, FAHA, The Research Institute at Nationwide Children's Hospital, Columbus, Ohio
Maciej Tomaszewski, MD, FAHA, University of Leicester, Leicester, United Kingdom

3:30
Preeclampsia in the Dahl Salt Sensitive Rat is Associated with Increased Uterine Artery Resistance and Reduced Placental Microvascular Density
Ellen E. Gillis, Alejandro R. Chade, Frank T. Spradley, Michael R. Garrett, Jennifer M. Sasser, Univ of Mississippi Medical Ctr, Jackson, Mississippi

3:45
Loss of Argininosuccinate Lyase Leads to Nitric Oxide Deficiency, Endothelial Dysfunction, Impaired Angiogenesis, and Hypertension

THURSDAY
4:00  **The Role of Immunological Memory in Hypertension**
Hana A. Itani, Liang Xiao, Mohamed A. Saleh, Jing Wu, Bethany L. Dale, Nataliya R. Babaro, Jason D. Foss, Annet Kirabo, Allison E. Norlander, Wei Chen, Vanderbilt Univ, Nashville, Tennessee; Ryo Suto, L. Gabriel Navar, Tulane Univ, New Orleans, Louisiana; Kenneth E. Bernstein, Cedars-Sinai Medical Ctr, Los Angeles, California; David G. Harrison, Vanderbilt Univ, Nashville, Tennessee

4:15  **Placental Growth Factor (PIGF) Reduces Blood Pressure and Improves Endothelin Type B Receptor (ETBR)-Mediated Microvascular Dilation in Hypertensive Pregnant Rats**
Marc Q. Mazzucca, Zongli Ren, Chen Lin, Jose S. Possomato-Vieira, Minglin Zhu, Raouf A. Khalil, Brigham and Women's Hosp and Harvard Medical Sch, Boston, Massachusetts

4:30  **Uncoupling the Metabolic and Cardiovascular Actions of Leptin through mTORC1 Signaling**
Balyssa B. Bell, Donald A Morgan, Mohamed Rouabhi, Kamal Rahmouni, Univ of Iowa, Iowa City, Iowa

4:45  **Prorenin Stimulates Firing Activity in Hypothalamic Neurons via Angiotensin II-Dependent and -Independent Mechanisms**
Maria S. Pitra, Georgia Regents Univ, Augusta, Georgia; Yumei Feng, Univ of Nevada Sch of Med, Reno, Nevada; Javier E. Stern, Georgia Regents Univ, Augusta, Georgia

5:00–6:30 PM  **Session XIII**
Awards Session
*Regency Ballroom*

Moderators:
Joey Granger, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Christine Baylis, PhD, University of Florida, Gainesville, Florida

5:00  **Presentation of the Irvine Page-Alva Bradley Lifetime Achievement Award**
Christine Baylis, PhD, Director of the University of Florida Hypertension Center, University of Florida, Gainesville, Florida

5:20  **Mid-Career Award for Research Excellence Molecular Basis of Neural Control of Blood Pressure**
Kamal Rahmouni, PhD, FAHA, Associate Professor, University of Iowa, Iowa City, Iowa

5:40  **The Harry Goldblatt New Investigator Award**
Justin L. Grobe, PhD, FAHA, Assistant Professor of Pharmacology, University of Iowa, Iowa City, Iowa

5:55  **High Blood Pressure Research Council Australia Young Investigator Award**
Treatment with the Mas Receptor Agonist, AVE-0991, Restores the Normal Regulation of Arterial Pressure in ACE2 Deficient Mice
Katrina Mirabito, Monash University, Melbourne, Australia

6:10  **British Hypertension Society Young Investigator Award**
Gitelman & Gordon – Mirror Image Syndromes Reveal the Roles of WNKs in Blood Pressure Homeostasis and Novel Anti-hypertensive Targets
Keith Siew BSc (Hons), MSc, NQEMT, Addenbrooke’s Hospital, Cambridge, UK

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

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

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**FRIDAY, SEPTEMBER 18**

7:00 AM  **Registration Opens**
*West Registration Desk*

7:00 AM  **How-To Session III**
*Regency Ballroom*

Moderators:
Analia Loria, PhD, University of Kentucky College of Medicine, Lexington, Kentucky
Fadi J. Charchar PhD, Federation University Australia, Ballarat, Australia

7:00  **How to Build your Research Profile: Lessons in Publishing and Funding**
Anna Dominiczak, OBE, MD, FRCP, FRSE, Editor-in-Chief, *Hypertension*, University of Glasgow, Glasgow, UK
Jane F. Reckelhoff, PhD, FAHA, Professor, University of Mississippi Medical Center, Jackson, Mississippi

8:00–10:00 AM  **Oral Session XIV**

8:00 AM  **The Donald Seldin Award Lecture**
*Regency Ballroom*

Moderator:
Pablo Ortiz, PhD, Henry Ford Hospital, Detroit, Michigan

Nuclear Receptors in Cardiorenal Disease
Moshe Levi, MD, FAHA, Professor, University of Colorado Denver, Aurora, Colorado
8:30 AM
Oral Session XIV Concurrent A
The Kidney and Hypertension I
Regency Ballroom

Moderators:
Donald Kohan, MD, PhD, University of Utah Health Sciences Ctr, Salt Lake City, Utah
William J. Welch, PhD, Georgetown University, Washington, D.C.

8:30  Loss of AT1 Receptors in the Podocyte Does Not Protect Against Renal Injury
Stacy A. Johnson, Tiffani White, Duke Univ, Durham, North Carolina; Robert Griffiths, Durham VA Medical Ctr, Durham, North Carolina; Susan B. Gurley, Duke Univ and Durham VA Medical Ctr, Durham, North Carolina; Thomas Coffman, Duke-NUS, Singapore, Duke Univ and Durham VA Medical Ctr, Durham, North Carolina

8:45  POLDIP-2/NOX-4 Generates Hydrogen Peroxide that Impairs Myogenic Response of Afferent Arterioles from Mice with the Reduced Renal Mass Model of Chronic Kidney Disease
Lingli Li, Georgetown Univ, Washington D.C.; En Yin Lai, Zhejiang Univ, Hangzhou, China; Zaiming Luo, Glenn Solis, Georgetown Univ, Washington DC; Kathy K. Griendling, W. Robert Taylor, Emory Univ, Atlanta, Georgia; William J. Welch, Wilcox S. Christopher, Georgetown Univ, Washington D.C.

9:00  Kidney-specific Klotho Gene Deficiency Impairs Sodium Excretion and Causes Hypertension
Quaisar Ali, Xiuing Wang, Zhongjie Sun, Univ of Oklahoma, Oklahoma City, Oklahoma

9:15  Inhibition of Phosphodiesterase 5 Attenuates Angiotensin II Dependent Hypertension and Renal Vascular Dysfunction in C57BL/6 but not in eNOS-KO Mice
Manuel Thieme, Sema Sivritas, Sebastian A. Potthoff, Guang Yang, Lars C. Rump, Johannes Stegbauer, Heinrich-Heine-Univ, Duesseldorf, Germany

9:30  Impaired Myogenic Response of the Af-art Contributes to the Increased Susceptibility to Hypertension and Diabetic Induced Renal Disease in Milan Normotensive Rats
Ying Ge, Fan Fan, Richard J. Roman, Univ of Mississippi Medical Ctr, Jackson, Mississippi

9:45  20-HETE Contributes to Vasosconstriction of Renal Microvessels and Sodium Retention in Cyp4a14/-/- Mice, a Model of 20-HETE Dependent Hypertension
Ankit Gilani, Varunkumar Pandey, Joseph Zullo, Priyanka Mishra, New York Medical Coll, Valhalla, New York; John R. Falck, Utah; Southwestern Medical Ctr, Dallas, Texas; Jorge Capdevila, Vanderbilt Univ Medical Ctr, Nashville, Tennessee; Michal Schwartzman, New York Medical Coll, Valhalla, New York

8:30 AM
Oral Session XIV Concurrent B
Vascular Biology I
Diplomat Ballroom

Moderators:
Patrick J. Pagano, PhD, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania
curt d. sigmund, phD, FAHA, University of iowa Carver College of Medicine, iowa City, iowa

8:30  Expression of a Dominant Negative Cullin 3 Mutant (Cul3Δ9) Impairs Endogenous Cullin 3 Activity and Causes Impaired Vasorelaxation of Aorta
Larry N. Agbor, Stella-Rita C. Ibeawuchi, Frederick W. Quelle, Curt D. Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, Iowa

8:45  The Undescribed Protein Caskin2 Is a Novel Regulator of eNOS Phosphorylation and Systemic Blood Pressure
Sarah B. Mueller, Susan B. Gurley, Christopher D. Kontos, Duke Univ, Durham, North Carolina

9:00  Endothelial S1P/S1P1 Signaling is Critical Regulator of Blood Flow and Pressure
Anna Cantalupo, Catherine Liu, Timothy Hla, Annarita Di Lorenzo, Elona Dautaj, Weill Cornell Medical Coll, New York, New York

9:15  Role for the Rho-GAP Graf3 in the Pathogenesis of Human Hypertension
Xue Bai, Kevin Mangum, Christopher Mack, Joan M. Taylor, Univ of North Carolina, Chapel Hill, North Carolina

9:30  Intrarenal Arteries Sense Mitochondrial N-formyl Peptides via Formyl Peptide Receptor in Wistar and Spontaneously Hypertensive Rats (shR)
Camilla F. Wenceslau, Cameron Grant McCarthy, Safia Ogbi, Paul M. O’Connor, R. Clinton Webb, Georgia Regents Univ, Augusta, Georgia
Program Agenda (continued)

9:45 AntagomiR-762 Prevents Angiotensin II Induced Aortic Fibrosis and Stiffening Kim Ramil C. Montaniel, Jing Wu, Vanderbilt University, Nashville, Tennessee; Matthew R. Bersi, Yale Univ, New Haven, Connecticut; Liang Xiao, Hana A. Itani, Kasey C. Vickers, Jay D. Humphrey, David G. Harrison, Vanderbilt University, Nashville, Tennessee

8:30 AM Oral Session XIV Concurrent C Inflammation, Immunity and Cytokines II Empire Ballroom

Moderators:
Mohan Raizada, PhD, University of Florida, Gainesville, Florida
Carmen De Miguel, PhD, University of Alabama at Birmingham, Birmingham, AL

8:30 CX3CR1 Deficiency Aggravates Renal Damage in Angiotensin II Induced Hypertensive Kidney Injury Ulrich Wenzel, Erfan Ahzdahan, Hajo Paust, Univ Hosp of Hamburg, Hamburg, Germany; Christian Kurts, Inst of Molecular Med and Experimental Immunology, Bonn, Germany; Alva Rosendahl, Univ Hosp of Hamburg, Hamburg, Germany

8:45 TRIF-Pathway of Innate Immune Responses Mediates Angiotensin II Hypertension Madhu V. Singh, Michael Z. Cicha, Mark W. Chapleau, François M. Abboud, Univ of Iowa, Iowa City, Iowa

9:00 Expression of Axl in Innate Immune Cells Contributes to Kidney Dysfunction and Onset of Hypertension Vyacheslav A. Korshunov, Kyung A. Ko, Deanne Mickelsen, Ronald W. Wood, Univ of Rochester, Rochester, New York; Sri N. Batchu, Univ of Toronto, Toronto, ON, Canada

9:15 An Obligatory Role for B Cells in the Development of Angiotensin II-dependent Hypertension Christopher Chan, Chris Sobey, Maggie Lieu, Dorota Ferens, Michelle Kett, Henry Diep, Hyun Ah Kim, Shalini Krishnan, Ekaterina Salimova, Antony Vinh, Chrishan Samuel, Peter Tipping, Monash Univ, Melbourne, Australia; Tin Soe Kyaw, Baker IDI Heart & Diabetes Inst, Melbourne, Australia; Ban-Hock Toh, Monash Univ, Melbourne, Australia; Alexander Bobik, Baker IDI Heart & Diabetes Inst, Melbourne, Australia; Grant Drummond, Monash Univ, Melbourne, Australia

70 9:30 Proinflammatory T Helper 17 Cells as an Indicator of Hypertension Seungbum Kim, Vermali Rodriguez, Carl J. Pepine, Mohan K. Raizada, Univ of Florida, Gainesville, Florida

9:45 Early Administration of 17-hydroxyprogesterone Caproate Improves Fetal Growth Restriction Possibly by Reducing Sflt-1 and Placental Cytolytic NK Cells in Response to Placental Ischemia During Pregnancy Lorena M. Amaral, Jamil Elfarra, Denise C. Cornelius, Jessica L. Faulkner, Mark W. Cunningham Jr., Taia R. McAtee, D’Andrea S. Thomas, Babbette LaMarca, The Univ of Mississippi Medical Ctr, Jackson, Mississippi

10:00–10:30 am Refreshments and Exhibits Ambassador Ballroom

10:30 AM–12:30 PM Oral Session XV

10:30 AM The Harriet Dustan Award Lecture Regency Ballroom

Moderator:
Jane F. Reckelhoff, PhD, FAHA, Professor, University of Mississippi Medical Center, Jackson, Mississippi

Redox Biology and the Vascular Phenotype in Hypertension Rhian Touyz, MBChb, MSc(Med), PhD, FRCP, FRSE, FAHA, Professor and Director of Research, Institute of Cardiovascular and Medical Sciences, University of Glasgow, Glasgow, UK

11:00 AM Oral Session XV Concurrent A Renin Angiotensin System II Regency Ballroom

Moderators:
A. H. Jan Danser, MSc, PhD, Erasmus MC, Badhoevedorp, Netherlands Antilles
Mark C. Chappell, PhD, FAHA, FASN, Wake Forest University, Winston-Salem, North Carolina

11:00 In Vivo Evidence of AT1a Receptor-Mediated Uptake of Angiotensin II by the Proximal Tubule Visualized by Intravital Multiphoton Imaging Xiao C. Li, Univ of Mississippi Medical Ctr, Jackson, Mississippi; Ruben M. Sandoval, Indiana Univ Sch of Med, Indianapolis, Indiana; Bruce A. Molitoris, Indiana Univ Sch of Med, Indianapolis, Indiana; Jia L. Zhuo, Univ of Mississippi Medical Ctr, Jackson, Mississippi
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
<th>Location</th>
<th>Moderators</th>
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<tr>
<td>11:15</td>
<td>Functional Significance of the Chymase/Ang-(1-12) Pathway on Cardiomyocytes</td>
<td>Xiaowei Zhang, Tiankai Li, Sarfaraz Ahmad, Jasmina Varagic, Leanne Groban, Wake Forest Univ Sch of Med, Winston-Salem, North Carolina; Louis J. Dell’Italia, Univ of Alabama at Birmingham, Birmingham, Alabama; Che Ping Cheng, Carlos M. Ferrario, Wake Forest Univ Sch of Med, Winston-Salem, North Carolina</td>
<td>Diplomat Ballroom</td>
<td>Sean D. Stocker, PhD, Penn State University College of Medicine, Hershey, Pennsylvania Kamal Rahmouni, PhD, FAHA, University of Iowa, Iowa City, Iowa</td>
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<td>11:30</td>
<td>G Protein-Coupled Estrogen Receptor Deletion Exacerbates Pulse Pressure in Female but not Male Hypertensive Mice</td>
<td>Sarah H. Lindsey, Emma H. Trimmer, Margaret A. Zimmerman, Tulane Univ Sch of Med, New Orleans, Louisiana</td>
<td>Diplomat Ballroom</td>
<td>Sean D. Stocker, PhD, Penn State University College of Medicine, Hershey, Pennsylvania Kamal Rahmouni, PhD, FAHA, University of Iowa, Iowa City, Iowa</td>
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<td>11:45</td>
<td>Role of High-mobility Group Box 1 in Angiotensin Converting Enzyme 2-Mediated Cardioprotective Effects in a Mouse Model of Myocardial Ischemia</td>
<td>Yanfei Qi, Juan Zhang, Lei Wang, Eric Krause, S. Paul Oh, Vinayak Shencoy, Dominic S. Guzzo, Michael J. Katovich, Mohan K. Raizada, Carl J. Pepine, Univ of Florida, Gainesville, Florida</td>
<td>Diplomat Ballroom</td>
<td>Sean D. Stocker, PhD, Penn State University College of Medicine, Hershey, Pennsylvania Kamal Rahmouni, PhD, FAHA, University of Iowa, Iowa City, Iowa</td>
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<td>12:00</td>
<td>Intracerebroventricular (ICV) Infusion of Angiotensin-(1-7) Lowers Blood Pressure and Improves Autonomic Function in Antenatal Betamethasone Exposed Sheep</td>
<td>Matthew J. Lawson, Hypertension and Vascular Res Ctr, Wake Forest Sch of Med, Winston Salem, North Carolina; Jorge P. Figueroa, Obstetrics and Gynecology, Wake Forest Sch of Med, Winston Salem, North Carolina; Mark C. Chappell, Debra I. Diz, Hossm A. Shaltout, Hypertension and Vascular Res Ctr, Wake Forest Sch of Med, Winston Salem, North Carolina</td>
<td>Diplomat Ballroom</td>
<td>Sean D. Stocker, PhD, Penn State University College of Medicine, Hershey, Pennsylvania Kamal Rahmouni, PhD, FAHA, University of Iowa, Iowa City, Iowa</td>
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<td>12:15</td>
<td>High Fat Diet Promotes Haplotype Dependent Differential Transcriptional Regulation of the Human Angiotensinogen Gene</td>
<td>Anita Rana, Suchir Jain, Nitin Puri, Deniz Eren, Natalie Sianianni, Ashok Kumar, The Univ of Toledo, Toledo, Ohio</td>
<td>Diplomat Ballroom</td>
<td>Sean D. Stocker, PhD, Penn State University College of Medicine, Hershey, Pennsylvania Kamal Rahmouni, PhD, FAHA, University of Iowa, Iowa City, Iowa</td>
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**11:00 AM**

**Oral Session XV Concurrent B**

**Obesity and Diabetes**

**Diplomat Ballroom**

**Moderators:**

Sean D. Stocker, PhD, Penn State University College of Medicine, Hershey, Pennsylvania

Kamal Rahmouni, PhD, FAHA, University of Iowa, Iowa City, Iowa
**Program Agenda**  
(continued)

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<tr>
<td>11:00 AM</td>
<td>Oral Session XV Concurrent C Clinical Hypertension</td>
<td>Empire Ballroom</td>
<td>John Bisognano, MD, PhD, University of Rochester Medical Center, Rochester, New York</td>
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<td></td>
<td>CD36 Genetic Variant Impacts Nitric Oxide Regulation of Endothelial Function: Response to Chronic Treatment with Phosphodiesterase 5 Inhibition</td>
<td></td>
<td>Cyndya A. Shibao, Jorge E. Celedonio, Vanderbilt Univ, Nashville, Tennessee; Latisha Gregory-Love, Washington Univ, St. Louis, Missouri; Claudia E. Ramirez, Amy C. Arnold, Luis E. Okamoto, Leena Choi, Italo Biaggioni, Naji Abumrad, Vanderbilt Univ, Nashville, Tennessee; Nada N. Abumrad, Washington Univ, St. Louis, Missouri</td>
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<td>11:30</td>
<td>High Density Adrenal MRI Detects Clinically Relevant Aldosterone-producing Adenomas with Higher Precision than Computer Tomography</td>
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<td>Inbar Raber, Robert Isom, John Louie, Shreyas Vasanawala, Vivek Bhalla, Stanford Univ, Stanford, California</td>
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<td>11:45</td>
<td>Low Birth Weight per se Is Not a Determinant of Vascular Dysfunction and Presumably Future Cardiovascular Risk in Humans</td>
<td></td>
<td>Stefano Rimoldi, Emrush Rexhaj, Univ of Bern, Bern, Switzerland; Roman Brenner, Kantonsalpital St. Gallen, St. Gallen, Switzerland; Claudio Sartori, Univ of Lausanne, Lausanne, Switzerland; Luigi Raio, Yves Allemand, Urs Scherrer, Univ of Bern, Bern, Switzerland</td>
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<td>12:00</td>
<td>Could Spirinolactone Be More Effective Than Sympathetic Renal Denervation to Treat True Resistant Hypertension? Preliminary Results from the DENERVHTA Study</td>
<td></td>
<td>Anna Oliveras, Nephrology Dept. Hosp del Mar, Barcelona, Spain; Pedro Armarin, Vascular Risk Area, Hosp Moisés Broggi, Sant Joan Despí, Barcelona, Spain; Laia Sans Atxer, Nephrology Dept. Hosp del Mar, Barcelona, Spain; Albert Clara, Vascular Surgery Dpt. Hosp del Mar, Barcelona, Spain; Susana Vázquez, Maria Vera, Tai Mooi Ho, Anna Faura, Julio Pascual, Nephrology Dpt. Hosp del Mar, Barcelona, Spain; Alejandro de la Sierra, Internal Med Dpt. Hosp Mútua Terrassa, Terrassa, Spain</td>
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<tr>
<td>12:30–2:00 PM</td>
<td>Annual Business Meeting and Awards Luncheon</td>
<td>Palladian Ballroom</td>
<td>*Ticketed event.</td>
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<td>2:00–3:30 PM</td>
<td>Poster Session III</td>
<td>Regency Ballroom</td>
<td>Posters P201–P259, P628–P645 and.....MP09–MP16 will be presented during this session. See page 33 for details.</td>
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<td>3:30–5:00 PM</td>
<td>Oral Session XVI</td>
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<td>3:30</td>
<td>Oral Session XVI Concurrent A Oxidative Stress I</td>
<td>Regency Ballroom</td>
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<td>3:45</td>
<td>Sequential Activation of Nox1 and Gremlin1 Leads to Endothelial Proliferation in Human Pulmonary Arterial Hypertension</td>
<td></td>
<td>Imad Al Ghoulhe, Sanghamitra Sahoo, Daniel N. Meijles, Univ of Pittsburgh, Pittsburgh, Pennsylvania; Jeffrey H. Amaral, Univ of Sao Paulo, Sao Paulo, Brazil; John Sembrat, Mauricio Rojas, Dmitry A. Goncharov, Elena A. Goncharova, Patrick J. Pagano, Univ of Pittsburgh, Pittsburgh, Pennsylvania</td>
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<td>3:30</td>
<td>Human (Pro)renin Receptor Activation Induces an Angiotensin II-Independent Pressor Response Mediated by NADPH Oxidase 4 Activity</td>
<td></td>
<td>Michelle N. Sullivan, Wencheng Li, Univ of Nevada Sch of Med, Reno, Nevada; Curt D. Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, Iowa; Yumei Feng, Univ of Nevada Sch of Med, Reno, Nevada</td>
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Next year’s conference: Sept. 14–17, 2016 … visit my.americanheart.org for more information.
Program Agenda (continued)

4:00  Vascular Aging in Aldosterone Associated Hypertension: Role of NADPH Oxidase 1
      Adam Harvey, Augusto C. Montezano, Katie Y. Hod, Rheure A. Lopes, Delyth Graham, Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom

4:15  MicroRNA Regulation of NADPH Oxidase Mediates the Antioxidant Effect of Renal Paraoxonase 2
      Santiago Cuevas, Yu Yang, Laureano D. Asico, John Jones, Ines Armando, Pedro A. Jose, Univ of Maryland Sch of Med, Baltimore, Maryland

4:30  Fetuin-A and Toll-like Receptor 4 Regulate Vascular Function: Role of Nox1
      Augusto C. Montezano, Karla B. Neves, Rheure A. Lopes, Susan Lackerman, Anastasiya Strembitska, Carol Jenkins, Jacqueline Thomson, Delyth Graham, Rhian M. Touyz, Inst of Cardiovascular and Medical Sciences - Univ of Glasgow, Glasgow, United Kingdom

4:45  Sorting Nexin 1: Molecular Mechanisms and Pharmacogenomics
      Jian Yang, Daping Hosp, The Third Military Medical Univ, Chongqing, China; Laureano Asico, Amber Beitelshees, Xiaoyan Wang, John Jones, Ines Armando, Santiago Cuevas, Univ of Maryland Sch of Med, Baltimore, Maryland; Churyu Zeng, Dept of Cardiology, Daping Hosp, The Third Military Medical Univ, Chongqing, China; Robin Felder, Dept of Pathology, The Univ of Virginia Sch of Med, Charlottesville, Virginia; Edward Weinman, Pedro Jose, Van Anthony M. Villar, Univ of Maryland Sch of Med, Baltimore, Maryland

3:30 PM
Oral Session XVI Concurrent B
Salt and Hypertension I
Diplomat Ballroom

Moderators:
Allen W. Cowley Jr., PhD, Medical College of Wisconsin, Milwaukee, Wisconsin
J. Howard Pratt, MD, Indiana University School of Medicine, Indianapolis, Indiana

3:30  Interleukin 17A Upregulates Both Renal Proximal and Distal Tubule Sodium Transporters in Angiotensin II-dependent Hypertension
      Allison E. Norlander, Vanderbilt Univ, Nashville, Tennessee; Nikhil Karnat, Univ of Southern California, Los Angeles, California; Benjamin Ko, Univ of Chicago, Chicago, Illinois; Annet Kirabo, Juan Gnecco, Mohamed A.

5:00–5:15 PM
Refreshments and Exhibits
Ambassador Ballroom

3:45  Renal Mechanisms of Blood Pressure Homeostasis and Salt Sensitivity by Collectrin
      Pei-Lun Chu, Joseph C. Gigliotti, Sylvia Cecehua, Fang Chan, Univ of Virginia, Charlottesville, Virginia; Donna L. Ralph, Univ of Southern California, Los Angeles, California; Nora Franceschini, Univ of North Carolina-Chapel Hill, Chapel Hill, North Carolina; Alicja A. McDonald, Univ of Southern California, Los Angeles, California; Thu H. Le, Univ of Virginia, Charlottesville, Virginia

4:00  Increased Blood Pressure Drives Renal T-cell Infiltration in the Dahl Salt-Sensitive Rat

4:15  Targeting the Alms1 Gene in Rats Causes Hypertension, Obesity and Enhanced NKCC2 Trafficking
      Ankita Bachhawat Jaykumar, Wayne State Univ, Detroit, Michigan; Paulo Caceres, Henry Ford Hosp, Detroit, Michigan; Emily Henson, Wayne State Univ, Detroit, Michigan; Gustavo Ares, Pablo Ortiz, Henry Ford Hosp, Detroit, Michigan

4:30  High Salt Activates Immune Cells to Promote Hypertension

4:45  Hypothalamic PVN GαI2 Protein-mediated Renal Nerve Dependent Sympathoinhibition Facilitates Suppression of NCC Activity and a Salt-resistant Phenotype
      Richard D. Wainford, Boston Univ, Boston, Massachusetts

97  Saleh, Vanderbilt Univ, Nashville, Tennessee; Robert S. Hoover, Emory Univ, Atlanta, Georgia; Alicia McDonough, Univ of Southern California, Los Angeles, California; Meena S. Madhur, Vanderbilt Univ, Nashville, Tennessee

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Program Agenda (continued)

5:15–6:00 PM
Session XVII
The Excellence Award in Hypertension Research Lectures
Supported by a grant from Novartis Pharmaceutical Corp.
Regency Ballroom

Gastro-Renal Communication: Role in Hypertension
Pedro A. Jose, MD, PhD, Professor, The George Washington School of Medicine and Health Sciences, Washington, DC

Hypertensive Cerebral Microangiopathy and Alzheimer’s Disease: Small Vessels, Big Tolls
Costantino Iadecola, MD, Anne Parrish Titzell Professor of Neurology and Neuroscience, Director (Chair), Feil Family Brain and Mind Research Institute, Weill Cornell Medical College, New York, New York

7:30–8:00 PM
Reception for the Excellence Award in Hypertension Research
Blue Room Terrace
Open to all conference attendees

8:00–10:00 PM
Dinner for the Excellence Award in Hypertension Research
Blue Room
*Ticketed event.

SATURDAY, SEPTEMBER 19

7:00 AM
Registration Opens
West Registration Desk

7:00 AM
Refreshments
Ambassador Ballroom

8:00–10:00 AM
Oral Session XVII

8:00 AM
The Lewis K. Dahl Memorial Lecture
Regency Ballroom

Moderator:
David Pollock, PhD, University of Alabama
Birmingham, Birmingham, Alabama

Autoimmunity in the Pathogenesis of Hypertension
Dr. Bernardo Rodríguez-Iturbe, MD, PhD, Professor of Medicine and Director of the Renal Service in the Hospital Universitario and Instituto Venezolano de Investigaciones Científicas (IVIC) Zulia, Maracaibo, Venezuela

8:30 AM
Oral Session XVIII Concurrent A
Vascular Biology II
Regency Ballroom

Moderators:
Jennifer Pollock, PhD, University of Alabama
Birmingham, Birmingham, Alabama
Stephanie W. Watts, PhD, Michigan State University,
East Lansing, Michigan

8:30 Cytochrome B5 Reductase 3 Sensitizes Soluble Guanylate Cyclase to Nitric Oxide in Vascular Smooth Muscle
Adam C. Straub, Anh T. Nguyen, Mizanur Rahaman, Stephanie M. Mutchler, Megan Miller, Courtney Watkins, Mark Gladwin, Univ of Pittsburgh, Pittsburgh, Pennsylvania
Victor Gordeuk, Univ of Illinois, Chicago, Illinois; Josef Pchial, Univ of Utah, Salt Lake City, Utah; Emil Martin, Univ of Texas Medical Sch at Houston, Houston, Texas

8:45 Role of Primary Endothelial Cilia in Hypertension
Hannah Saternos, MD, Zubayer Hossain, Wissam AbouAlaiwi, Univ of Toledo, Toledo, Ohio

9:00 Protective Effects of Nuclear Factor E2-related Factor 2 Activation on Angiotensin II Induced Microvascular Endothelial Dysfunction
Cheng Wang, Sun Yat-sen Univ, Guangzhou, China; William J. Welch, Georgetown Univ, Washington, DC; James A. Tomlinson, James Leiper, Imperial Coll London, London, United Kingdom; Christopher S. Wilcox, Dan Wang, Georgetown Univ, Washington, D.C.

9:15 Importance of the C-Terminal Transactivation Domain of STAT3 in Hypertension-Induced Cardiac Hypertrophy
Fouad Antoine Zouein, Univ of Mississippi Medical Ctr, Jackson, Mississippi; Carlos Zgheib, Univ Of Colorado Denver - Anschutz Medical Campus and Colorado Children’s Hosp, Aurora, Colorado; Jussara M. do Carmo, Ramana Vaka, Raffaele Altara, Univ of Mississippi Medical Ctr, Jackson, Mississippi; Mazen Kurdi, Lebanese Univ, Beirut, Lebanon; George Booz, Univ of Mississippi Medical Ctr, Jackson, Mississippi

9:30 Maternal Separation, a Model of Early Life Stress in Rats, Dysregulates the Renal Vasculature Gene Expression Patterns During Late Nephrogenic Period and Adult Life
Kuey-Chu Chen, Alan S. Loria, Dept of Pharmacology an Nutritional Sciences, Univ of Kentucky, Lexington, Kentucky
Endothelial Mineralocorticoid Receptor Knock Out Protects the Endothelium from Aldosterone-Mediated Vascular Stiffness Javad Habibi, Vincent G. DeMarco, Guanghong Jia, Annayya Aroor, Mona Garro, Brittany Dodd, Univ of Missouri, Columbia, Missouri; Iris Z. Jaffe, Tufts Univ, Medford, Massachusetts; James Sowers, Univ of Missouri, Columbia, Missouri

9:45  112

Role of Connecting Tubule Glomerular Feedback in Tubuloglomerular Feedback Resetting After Unilateral Nephrectomy Sumit R. Monu, Hong Wang, Yilin Ren, Kristopher Kutskill, Cesar Romero, Juan Xavier Juncos, Branislava Janic, Ed Peterson, Henry Ford Hosp, Detroit, Michigan; Jeffrey L. Garvin, Case Western Univ, Cleveland, Ohio; Oscar A. Carretero, Henry Ford Hosp, Detroit, Michigan

8:30 AM  118

Oral Session XVIII Concurrent B
Kidney and Hypertension II
Diplomat Ballroom

Moderators:
Jennifer C. Sullivan, PhD, FAHA, Georgia Health Sciences University, Augusta, Georgia
Zhongjie Sun, MD, PhD, University Oklahoma Health Sciences Ctr, Oklahoma City, Oklahoma

8:30  113

Renal Phenotype of Inwardly Rectifying Potassium Channel Kcnj16 (Kir 5.1) Knockout in the Dahl Salt-Sensitive Rats Oleg Palygin, Vladislav Levchenko, Daria V. Ilatovskaya, Jessica L. Barnett, Aron M. Geurts, Howard J. Jacob, Alexander Staruschenko, Medical Coll of Wisconsin, Milwaukee, Wisconsin

8:45  114

K+ Rich Diet During Angiotensin II Hypertension Reduces Renal Na-Cl Cotransporter and Phosphorylation, but Not Blood Pressure Luciana C. Veiras, Jiyang Han, Donna L. Raplh, Alicia A. McDonough, Univ of Southern California, Los Angeles, California

9:00  115

Hydrochlorothiazide Lowers Systemic Blood Pressure Predominantly Through Vasodilation in Conditions Associated with Vasoconstriction Saeed Alshahrani, Jack Rubinstein, Min Jiang, Sharon Barone, Jie Xu, Kamyar Zahedi, Manoocber Soleimani, Univ of Cincinnati, Cincinnati, Ohio

9:15  116

Characterization of a Sodium Responsive Human Sodium Bicarbonate Transporter NBCe2 in Human Proximal Tubule John J. Gildea, Peng Xu, M. Carlson, Robert T. Gaglione, Dora Bigler Wang, Brandon A. Kemp, Camellia M. Reyes, Helen E. McGrath, Robert M. Carey, Unv of Virginia, Charlottesville, Virginia; Pedro A. Jose, Univ of Maryland, Baltimore, Maryland; Robin A. Felder, Univ of Virginia, Charlottesville, Virginia

9:30  117

Activation of Nuclear Factor Erythroid 2-related Factor 2 (Nrf2) Enhances Cyclooxygenase 2 Expression via Promoter Antioxidant Response Element in Preglomerular Vascular Smooth Muscle Cells (PGVSMCs) Zaiming Luo, William J. Welch, Christopher S. Wilcox, Georgetown Univ, Washington, DC

9:45  118

NOS1β Mediates the Difference Between Juxtamедullary and Superficial Glomerular Injury with Aging Jin Wei, Shaohui Wang, Jie Zhang, Kun Jiang, Kay-Pong Yip, Ruisheng Liu, Univ of South Florida, Tampa, Florida

8:30 AM  119

Oral Session XVIII Concurrent C
Oxidative Stress II
Empire Ballroom

Moderators:
Imad Al Ghouleh, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania
David G. Harrison, MD Vanderbilt University School of Medicine, Nashville, Tennessee

8:30  119

The Imbalance of Mitochondrial Superoxide Dismutase Activity and Superoxide Production in Endothelial Dysfunction and Hypertension Anna E. Dikalova, William G. McMaster, Hana A. Itani, Rafal R. Nazarewicz, Joshua P. Fessel, Jorge L. Gamboa, David G. Harrison, Sergey Dikalov, Vanderbilt Univ Medical Ctr, Nashville, Tennessee

8:45  120

Increased Mitochondrial Superoxide in the Brain, but not Periphery, Sensitizes Mice to Angiotensin II-Mediated Hypertension Adam J. Case, Jun Tian, Matthew C. Zimmerman, Univ of Nebraska Medical Ctr, Omaha, Nebraska

9:00  121

Gstm1 Deletion Exaggerates Hypertension, Oxidative Stress, and Kidney Pathology in Angiotensin II Hypertension Independent of Nox2 and Nox4 Sylvia Cechova, Fang Chan, Univ of Virginia, Charlottesville, Virginia; Phillip Ruiz, Univ of Miami, Miami, Florida; Thu H. Le, Univ of Virginia, Charlottesville, Virginia

9:15  122

Activation of Nuclear Factor Erythroid 2-related Factor 2 (Nrf2) Enhances Cyclooxygenase 2 Expression via Promoter Antioxidant Response Element in Preglomerular Vascular Smooth Muscle Cells (PGVSMCs) Zaiming Luo, William J. Welch, Christopher S. Wilcox, Georgetown Univ, Washington, DC
9:30  Age-Related Endothelial Senescence is Driven by Thrombospondin-1-Activated NADPH Oxidase Nox1  

9:45  Luminal Flow Induces NADPH Oxidase 4 Translocation to the Nuclei of Thick Ascending Limbs  
Fara Saez, Jeffrey L. Garvin, Case Western Reserve Univ, Cleveland, Ohio

10:00–10:30 AM  
Refreshments  
Ambassador Ballroom

10:30 AM–12:00 PM  
Oral Session XIX

10:30 AM  
Oral Session XIX Concurrent A  
Preeclampsia and Developmental Programming of Hypertension  
Regency Ballroom  

Moderators:  
Mark Santillan, MD, University of Iowa, Carver College of Medicine, Iowa City, Iowa  
Kate M. Denton, PhD, Monash University, Melbourne, Australia

10:30 Overexpression of the Transcription Factor Dlx5 in the Placenta of Preeclamptic Patients Leads to Decreased Trophoblast Proliferation–A Novel Mechanism Involving Loss of imprinting  
Julianna Rugor, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Manvendra Singh, Max-Debrück Ctr for Molecular Med (MDC), Berlin, Germany; Florian Herse, Nadine Haase, Michaela Golic, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Dominik Müller, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Herbert Schulz, Univ of Cologne, Cologne, Germany; Laurence D. Hurst, Univ of Bath, Bath, United Kingdom; Ralf Dechend, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Zsuzsanna Izsavak, Max-Debrück Ctr for Molecular Med (MDC), Berlin, Germany

10:45 Systemic Administration of (Pyr1)-Apelin-13 at Late Pregnancy Reduces Blood Pressure, Proteinuria, and Improves Autonomic Function in Preeclamptic Rats  

11:00 Agonistic Autoantibodies to Angiotensin II Type I Receptor Contributes Partly to Placental ischemia-induced Cerebrovascular Abnormalities  
Junie P. Warrington, Fan Fan, Babbette B. LaMarca, Univ of Mississippi Medical Ctr, Jackson, Mississippi; Ralf Dechend, Gerd Wallukat, Experimental and Clinical Res Ctr, Berlin, Germany; Richard J. Roman, Heather A. Drummond, Joey P. Granger, Michael J. Ryan, Univ of Mississippi Medical Ctr, Jackson, Mississippi

11:15 Role of Hypoxia-dependent Autophagy in the Trophoblast of BPH/5, a Mouse Model of Pre-eclampsia (PE)  

11:30 A Biopolymer-Stabilized VEGF Chimera Reverses Angiogenic Imbalance in vitro in the Reduced Uterine Perfusion Pressure Model of Preeclampsia  
Omar C. Logue, Fakhri Mahdi, Eric M. George, Gene L. Bidwell III, Univ of Mississippi Medical Ctr, Jackson, Mississippi

11:45 Sphingosine-1-Phosphate Signaling Plays a Role in High Blood Pressure Programmed by Intrauterine Growth Restriction in Mouse  
Suttira Intapad, Univ of Mississippi Medical Ctr, Jackson, Mississippi

10:30 AM  
Oral XIX Concurrent B  
Aldosterone, Its Receptors and Other Hormones  
Diplomat Ballroom

Moderators:  
Toshiro Fujita, MD, PhD, Research Center for Advanced Science and Technology (RCAST), University of Tokyo, Tokyo, Japan  
Celso Gomez-Sanchez, MD, University of Mississippi Medical Center, Jackson, Mississippi

10:30 Endothelial Cell Mineralocorticoid Receptor: A Critical Player in Aortic Stiffness and Cardiac Diastolic Dysfunction in Female Mice  
Guanghong Jia, Javad Habibi, Annayya R. Aroor, Zhe Sun, Linx Ma, Vincent G. DeMarco, Luis A. Martinez-Lemus, Gerald A. Meiningen, Univ of Missouri, Columbia, Missouri; Iris Z. Jaffe, Tufts Univ Medical Sch, Boston, Massachusetts; James R. Sowers, Univ of Missouri, Columbia, Missouri
Program Agenda (continued)

10:45  Leptin-mediated Aldosterone Secretion Causes Hypertension in Obese Females  Eric J. Belin de Chantemèlé, Miriam Cortez-Cooper, Joseph Cannon, Anne-Cécile Huby, Georgia Regents Univ, Augusta, Georgia

11:00  Role of Vascular and Myeloid Mineralocorticoid Receptor in Renal Ischemia/reperfusion Jonatan Barrera-Chimal, Alan Le Mercier, Sonia Prince, Fouad Fadel, Soumaya El Moghrabi, INSERM U1138, Ctr de Recherche de Cordeliers, Paris, France; Norma A. Bobadilla, Molecular Physiology Unit, Insto de Investigaciones Biomedicas, UNAM and INNSZ, Mexico city, Mexico; Frederic Jaisser, INSERM U1138, Ctr de Recherche de Cordeliers, Paris, France

11:15  Activation of the Mineralocorticoid Receptor by O-glycosylation Through Hyperglycemia Maniselvan Kuppusamy, Elise Gomez-Sanchez, Celso Gomez-Sanchez, Univ of Mississippi Medical Ctr, Jackson, Mississippi

11:30  Activated Intrarenal Renin Angiotensin System Contributes to the Development of Chronic Kidney Disease in Primary Aldosteronism Yoshitsugu Iwakura, Ryo Morimoto, Kumi Kikuchi, Yoshikiyo Ono, Masataka Kudo, Sadayoshi Ito, Fumitoshi Satoh, Tohoku Univ Hosp, Sendai, Japan

11:45  Mineralocorticoid Receptor Activation in Macrophages Mediates High Fat/high Sucrose Induced Vascular Stiffness in Female Mice Camila Manrique, James Sowers, Annayya Aroor, Guanghong Jia, Javad Habibi, Univ of Missouri, Columbia, Missouri; Richard M. Mortensen, Univ of Michigan, Ann Arbor, MI; Guido Lastra, Univ of Missouri, Columbia, Missouri

10:30 AM
Oral XIX Concurrent C
Salt and Hypertension II
Empire Ballroom

Moderators:
Dewan S. Majid, MD, PhD, Tulane University School of Medicine, New Orleans, Louisiana
Richard D. Wainford, PhD, FAHA, Boston University, Boston, Massachusetts

10:30  Conditional Knockout of Sphingosine-1-Phosphate Receptor 1 in Renal Collecting Ducts Promotes Sodium Retention in Mice Qing Zhu, Wei Xi Wang, Lei Wang, Junping Hu, Ningjun Li, Virginia Commonwealth Univ, Richmond, Virginia

10:45  High Salt Intake Augments Excitability of Pre-sympathetic PVN Neurons Through Dysfunction of the Endoplasmic Reticulum Ca2+ ATPase Robert A. Larson, Andrew D. Chapp, Michael J. Huber, Michigan Technological Univ, Houghton, Michigan; Zhiying Shan, Qing-Hui Chen, Michigan Technological Univ, Houghton, Michigan

11:00  Renal Afferent Nerve Sensitivity and the Pathophysiology of Salt-sensitive Hypertension Richard D. Wainford, Kathryn R. Walsh, Boston Univ, Boston, Massachusetts

11:15  Deficiency of Serum Glucocorticoid Kinase 1 (SGK1) in T Lymphocytes Blunts Hypertension and Abrogates Renal/Vascular Inflammation Allison E. Norlander, Mohamed A. Saleh, David G. Harrison, Meena S. Madhur, Vanderbilt Univ, Nashville, Tennessee

11:30  G-Protein Coupled Receptors GPR37 and GPR37L1 Regulate Sodium Reabsorption in Renal Proximal Tubule Cells Xiaoxu Zheng, Ines Armando, Pedro A. Jose, Prasad Konkalmatt, Univ of Maryland Sch of Med, Baltimore, Maryland

11:45  A Fructose-but Not a Glucose-enriched Diet, Induces a Salt-dependent Increase in Blood Pressure and Enhances NKCC2 Phosphorylation in Normal Rats Keyona N. King-Medina, Emily Henson, Wayne State Univ Sch of Med, Detroit, Michigan; Pablo Ortiz, Henry Ford Health System, Detroit, Michigan

12:00  Adjourn
Poster Presentations

Poster Session Schedule
All poster presentations take place in the Regency Ballroom

**Poster Session I**
Wednesday, September 16, 6:00–9:00 PM
Trainee Onsite Poster Competition
Abstracts P001–P139

**Poster Session II**
Thursday, September 17, 1:00–2:30 PM
Abstracts P140–P200 and P260
Late Breaking P600–P627
Moderated Poster MP01–MP08

**Poster Session III**
Friday, September 18, 2:00–3:30 PM
Abstracts P201–P259
Late Breaking P628–P646
Moderated Posters MP12–MP16

Note that there are instances when the posters are not in numerical order due to changes requested by the presenter.

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<td>Wednesday, September 16</td>
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<td>Session II</td>
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<td>Thursday, September 17</td>
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<td>Session III</td>
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<td>Friday, September 18</td>
<td>2:00–3:30 PM</td>
<td>10:00 AM–2:00 PM</td>
<td>3:30–4:30 PM</td>
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**Moderated Poster Sessions**
All moderated poster sessions will take place in the Poster Hall in the Regency Ballroom. Please follow the signage to the moderated session you wish to attend. Each moderated poster session has been assigned a number as listed below. Proceed to the corresponding table to meet the moderator and check out a headset. We ask that you arrive 15 minutes prior to the start time so that the “tour” can begin on time. From the table, you will be guided by the moderator and begin the tour of your selected session.

Please note that each session is limited to 30 attendees and headsets are distributed on a first-come, first-served basis.

**Thursday, September 17**
Moderated portion takes place from 1:15–1:55 PM
MP01 Renin Angiotensin System
MP02 Vascular Biology/Remodeling and Dysfunction

**Friday, September 18**
Moderated Portion takes place from 2:15–2:55 PM
MP03 Aldosterone, Its Receptors and Other Hormones
MP04 Chronic Kidney/Cardiovascular Renal Interactions

Next year’s conference: Sept. 14–17, 2016 … visit my.americanheart.org for more information.
Moderated Poster Sessions

MP01 Renin Angiotensin System
Moderator:
Justin L Grobe, PhD, FAHA, University of Iowa, Iowa City, Iowa

MP01 Vascular versus Tubular Renin: Role in Kidney Development
Maria Luisa S. Sequeira Lopez, Vidya K. Nagalakshmi, Minghong Li, Univ of Virginia, Charlottesville, VA; Curt D. Sigmund, Univ of Iowa, Iowa City, IA; R. Ariel Gomez, Univ of Virginia, Charlottesville, VA

MP02 Angiotensin II Mediates Microvascular Rarefaction In Vivo and Exacerbates Endothelial-To-Mesenchymal Transition In Vitro
Katrin Nather, Univ of Glasgow, Glasgow, United Kingdom; Mónica Flores-Muñoz, Univ Veracruzana, Veracruz, Mexico; Rhian M. Touyz, Christopher M. Loughrey, Stuart A. Nicklin, Univ of Glasgow, Glasgow, United Kingdom

MP03 Relationships between Serum Soluble (Pro) Renin Receptor Levels and Endocrine or Metabolic Factors in Patients with Essential Hypertension
Shihori Kimura, Satoshi Morimoto, Kaoru Yamashita, Noriyoshi Takano, Yuki Mizuguchi, Yasufumi Seki, Michita Niyama, Naohiro Yoshida, Kanako Bokuda, Midori Yatabe, Junichi Yatabe, Daisuke Watanabe, Takashi Ando, Atsuhiro Ichihara, Tokyo Women's Medical Univ, Tokyo, Japan

MP04 Cardiac ACE2/Angiotensin-(1-7) in Rats Expressing Human Angiotensinogen Gene
Jasmina Varagic, Jessica VonCannon, Sarfaraz Ahmad, Wake Forest Univ Sch of Med, Winston Salem, NC; Michael Bader, Max Delbruck Ctr for Molecular Med, Berlin-Buch, Germany; Carlos M. Ferrario, Wake Forest Univ Sch of Med, Winston Salem, NC

MP02 Vascular Biology/Remodeling and Dysfunction
Moderator:
Gabor Csanyi, PhD, Georgia Regents University, Augusta, GA

MP05 Knockdown of Gamma-adducin Expression Impairs the Myogenic Response of the Cerebral and Renal Arterioles
Fan Fan, Mallikarjuna R. Pabbidi, Ying Ge, Richard J. Roman, Univ of Mississippi Medical Ctr, Jackson, MS

MP06 Mitochondrial Dynamics and Vascular Effects: Role of OPA1 in Hypertension
Phuc Minh Chau Nguyen, Celine Grenier, Eric Lelievre, Linda Grimaud, Emilie Vessieres, Emmanuelle Sarzi, Dominique Bonneau, Pascal Reynier, Celine Fassot, Guy Lenaers, Daniel Henrion, Laurent Loufrani, UMR-CNRS 6214 INSERM 1083, Angers, France

MP07 Endogenous Chemerin Amplifies Nerve-Dependent Arterial Contraction
Emma Darios, Stephanie W. Watts, Michigan State Univ, East Lansing, MI

MP08 Syndecan-1 is Involved in Osteoprotegerin-induced Vascular Dysfunction
Augusto C. Montezano, Karla B. Neves, Rhea A. Lopes, Susan Leckerman, Anastasiya Strembitska, Carol Jenkins, Jacqueline Thomson, Delyth Graham, Rhian M. Touyz, Inst of Cardiovascular and Medical Sciences-Univ of Glasgow, Glasgow, United Kingdom

MP03 Aldosterone, Its Receptors and Other Hormones
Moderator:
TBD

MP09 Adrenal-specific Deletion of TASK Channels Evokes Normal-Renin Hypertension
Nick A. Guagliardo, Thu H. Le, Douglas A. Bayliss, Univ of Virginia, Charlottesville, VA; David T. Breault, Boston Children's Hosp, Boston, MA; Paula Q. Barrett, Univ of Virginia, Charlottesville, VA

MP10 Nobelty and Significance of the Rapid Measurement of Plasma Aldosterone Concentration and Active Renin Concentration
Fumitoshi Satoh, Yoshiyiko Ono, Div of Nephrology, Endocrinology and Vascular Med, Tohoku Univ Hosp, Sendai, Japan; Ryo Morimoto, Yoshitsugu Iwakura, Masahiro Nezu, Kei Omata, Yuta Tezuka, Masataka Kudo, Div of Nephrology, Endocrinology and Vascular Med, Dept of Med,Tohoku Univ Hosp, Sendai, Japan; Kazumasa Seiji, Kei Takase, Dept of Diagnostic Radiology, Tohoku Univ Hosp, Sendai, Japan; Yasuhiro Nakamura, Dept of Pathology,Tohoku Univ Hosp, Sendai, Japan; Celso E Gomez-Sanchez, 4Endocrinology, the Univ of Mississippi Medical Ctr, Jacksons, MS; Hiro nobu Sasano, Dept of Pathology,Tohoku Univ Hosp, Sendai, Japan; Sadayoshi Ito, Div of Nephrology, Endocrinology and Vascular Med, Tohoku Univ Hosp, Sendai, Japan

MP11 Striatin Heterozygous Knockout Mice Have Increased Aldosterone Sensitivity
Amanda E. Garza, Luninita Pojoga, Rene Baudrand, Burhanuddin Moize, Tham Yao, Gail K. Adler, Gordon H. Williams, Harvard Medical Sch/ Brigham and Women's Hospital, Boston, MA
Poster Presentations (continued)

MP12 The AA2-Ratio: A Novel Screening Test for Primary Aldosteronism in Hypertensive Patients
Marko Poglitsch, Cornelia Schwager, Dunja van Oyen, Claudia Aigner, Oliver Domenig, Attoquant Diagnostics, Vienna, Austria

MP04 Chronic Kidney/Cardiovascular Renal Interactions
Moderator:
Pablo A. Ortiz, PhD, Henry Ford Hospital, Detroit, Michigan

MP13 Etamicastat Prevents Arterial Blood Pressure Increase in Mice Lacking Salt-inducible Kinase 1 (SIK1)

MP14 A K572Q Mutation in Gamma-adducin Is Responsible for the Impaired Myogenic Response and Autoregulation of Renal and Cerebral Blood Flow in FHH Rats
Fan Fan, Univ of Mississippi Medical Ctr, Jackson, MS; Aron M. Geurts, Medical Coll of Wisconsin, Milwaukee, WI; Mallikarjuna R. Pabbidi, Ying Ge, Univ of Mississippi Medical Ctr, Jackson, MS; David R. Harder, Medical Coll of Wisconsin, Milwaukee, WI; Richard J. Roman, Univ of Mississippi Medical Ctr, Jackson, MS

MP15 Afferent Arteriolar Endothelial-dependent Dilation is Impaired Prior to the Development of Radiation-induced Nephropathy and Hypertension
John D. Imig, Amit Sharma, MD Abdul H. Khan, Brian Fish, Eric P. Cohen, Medical Coll Wisconsin, Milwaukee, WI

MP16 Renin AAV Uninephrectomized db/db Mice as a Novel Diabetic Kidney Disease Model for Testing New Therapeutics on Top of RAS Inhibition
Shannon M. Harlan, Hana E. Baker, Cynthia R. Shrake, Matthew D. Breyer, Josef G. Heuer, Eli Lilly and Company, Indianapolis, IN

Trainee Onsite Poster Competition
Poster Chairs:
Hana A. Itani, PhD, Vanderbilt University Medical Center, Nashville, Tennessee
Brandi M. Wynne, PhD Emory University School of Medicine, Atlanta, Georgia
Augusto Montezano, PhD, FAHA, University of Glasgow, Glasgow, UK
Lucinda Hilliard, PhD, Monash University, Australia

P001 Comparative Study on Steroidogenic Activity in Aldosterone-Producing Adenoma With ATPase or CACNA1D Gene Mutations in Japanese Patients With Primary Aldosteronism
Takumi Kitamoto, Chiba Univ, Chiba city, Japan; Sachiko Suematsu, Yoko Matsuzawa, Jun Sailo, Masao Omura, Tetsuo Nishikawa, Yokohama Rosai Hosp, Yokohama City, Japan

P002 Aldosterone Promotes the Release of miRNA-Containing Exosomes from Endothelial Cells, Leading to Uptake by Smooth Muscle Cells
Stacy Robertson, Adelina Romano, Edward Dababneh, Christina Bursill, Heart Res Inst, Sydney, Australia

P003 Hyperactive Brain Renin Angiotensin System Induces Polydipsia Through mTORC1 Pathway
Kenjiro Muta, Donald A. Morgan, Justin L. Grobe, Curt D. Sigmund, Kamal Rahmouni, The Univ of Iowa, Iowa City, IA

P004 Telemonitoring of Blood Pressure in Low-Income African American Patients With Congestive Heart Failure
Gautam V. Shah, Michele Reali-Sorrell, Benico Barzilai, Andrei Brateanu, Cleveland Clinic, Cleveland, OH

P005 Mitochondrial Dysfunction in Heart of Coronary Artery Disease: Correlation with Telomerase Activity
Karima Ait-Aissa, Cardiovascular Ctr; Medical Coll of Wisconsin, Milwaukee, WI; Joochwan Kim, Dept of Physiology and Pharmacology, Schulich Sch of Med & Dentistry, Western Univ, London, ON, Canada; Garrett Morgan, Univ of Utah, Salt Lake City, UT; Janine H. Santos, NIHES, Raleigh-Durham, NC; Amadou K. Camara, Dept of Anesthesiology; Medical Coll of Wisconsin, Milwaukee, WI; Dean H. Betts, Dept of Physiology and Pharmacology, Schulich Sch of Med & Dentistry, Western Univ., London, ON, Canada; Tony Donato, Univ of Utah, Salt Lake City, UT; Andreas M. Beyer, Cardiovascular Ctr; Medical Coll of Wisconsin, Milwaukee, WI
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<td>Huey Wen Lee, Meilta Brdar, Robert Widop, Anthony Dear, Tracey Gaspari, Monash Univ, Victoria, Australia</td>
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<td><strong>P007</strong> Hypertension and Myocardial Mechanics in Patients with Hypertrophic Cardiomyopathy</td>
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<td>Kevin K. Manocha, David F. Snipelisky, Mayo Clinic, Rochester, MN</td>
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<td><strong>P008</strong> Impact of Hydrogen Sulfide on the Epigenetics of Diabetic Cardiomyopathy</td>
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<td>Sudhakar Veeranki, Sourav Kundu, Srikanth Givvinna, Suresh C. Tyagi, Univ of Louisville, Louisville, KY</td>
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<td><strong>P009</strong> Relationship Between Increased Systolic and Diastolic Pressure and Left Atrial Train Rate</td>
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<tr>
<td>Tsung Yeh Yang, Ta-Chuan Hung, Jen-Yuan Kuo, MacKay Memorial Hosp, New Taipei City, Taiwan; Jia-Yin Hou, MacKay Memorial Hosp, Taipei, Taiwan; Hung-I Yeh, MacKay Memorial Hosp, New Taipei City, Taiwan; Chung-Lieh Hung, MacKay Memorial Hosp, Taipei, Taiwan</td>
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<td><strong>P010</strong> Specific Renal Outer Medulla Upregulation of α- and β-Adrenergic Receptor Subtypes in Spontaneously Hypertensive African Green Monkeys</td>
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<td>Megan K. Rhoads, Jeffrey L. Osborn, Univ of Kentucky, Lexington, KY</td>
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<td><strong>P011</strong> Source and Catabolism Sites of the Cardio-renal Protective Peptide N-Acetyl-Seryl-Aspartyl-Lysyl-Proline (Ac-SDKP)</td>
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<td>Cesar A. Romero, Nitin Kumar, Nour-Eddine Rhaleb, Oscar A. Carretero, Henry Ford Hosp, Detroit, MI</td>
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<tr>
<td><strong>P012</strong> Mycophenolate Mofetil Prevents Cerebrovascular Injury in Stroke-prone Spontaneously Hypertensive Rats</td>
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<td>Isha S. Dhande, Yaming Zhu, Peter A. Doris, Univ of Texas Health Science Ctr, Houston, TX</td>
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<td><strong>P013</strong> Meta-analysis of Poor Outcomes and Permissive Hypertension after Acute Ischemic Stroke</td>
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<td>Alexander Ivanov, Ambreen Mohamed, Alex Korniyenko, NYMH, Brooklyn, NY</td>
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<td><strong>P014</strong> Poor Blood Pressure Control and Severe Coronary Artery Lesions Are Risks of Cerebral Microbleeds in Patients With Coronary Artery Disease During Antiplatelet Therapy</td>
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<td>Yoshiko Iwamoto, Kurume Univ Sch of Med, Kurume, Japan</td>
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<td><strong>P015</strong> Bilateral Common Carotid Artery Stenosis in Hypertensive Rats Impairs Dilation in Penetrating Arterioles and Posterior Communicating Arteries</td>
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<td>Nusrat Matin, Courtney Fisher, William F. Jackson, Anne M. Dorrance, Michigan State Univ, East Lansing, MI</td>
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<td><strong>P016</strong> GYY4137, a Hydrogen Sulfide Donor, Mitigates Ang II-induced Extracellular Matrix Remodeling in Glomerular Endothelial and Mesangial Cells</td>
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<td>Matthew Amin, Sathnur Pushpakumar, Sourav Kundu, Geetansh Tyagi, Aaron Tyagi, Utpal Sen, Univ of Louisville, Louisville, KY</td>
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<td><strong>P017</strong> Contribution of High Mobility Group Box 1 to Hyperhomocysteinemia-induced Podocyte Injury and Glomerular Sclerosis</td>
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<td>Krishna M. Boini, Min Xia, Sabena M. Conley, Guangbi Li, Saisudha Koka, Todd W. Gehr, Pin-Lan Li, Virginia Commonwealth Univ., Richmond, VA</td>
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<td><strong>P018</strong> Periodic Water Intake Exacerbates Hypertension, Decreases Renal Function and Increases Renal Inflammation in Spontaneously Hypertensive Rats</td>
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<td>Lucinda M. Hilliard, Louise Bulmer, Katrina M. Mirabito, Antony Vinh, Kate M. Denton, Monash Univ, Melbourne, Australia</td>
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<td><strong>P019</strong> Upregulation of Autophagy Enhances (pro)renin Receptor Expression via P62 -erk1/2 Signaling Pathway in Podocytes</td>
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<td>Caixia Li, Syed Quadri, Helmy M. Siragy, Univ of Virginia, Charlottesville, VA</td>
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<td><strong>P020</strong> Decreased Survival Rate in Female Obese Leptin Receptor Mutant Dahl Salt-Sensitive Rats that Develop Chronic Kidney Disease</td>
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<tr>
<td>Kasi McPherson, Univ of Mississippi Medical Ctr, Jackson, MS; Devin Guilory, Jackson State Univ, Jackson, MS; Lateia Taylor, Denisha Spies, Ashley C Johnson, Michael R. Garrett, Jan M Williams, Univ of Mississippi Medical Ctr, Jackson, MS</td>
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<td><strong>P021</strong> The Combined Effects of Elevated Intrarenal Ang II and Blood Pressure Causes Greater Renal Injury in the Non-clipped Kidneys in 2k1c Rat</td>
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<td>Kayoko Miyata, Weijian Shao, Minolta Prieto, Ryousuke Satou, Akemi Katsurada, Dale Seth, Kenneth D Mitchell, L. Gabriel Navar, Tulane Univ, New Orleans, LA</td>
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<td><strong>P022</strong> Association of Longitudinal Change in Kidney Function with Left Ventricular Structure and Function as Measured by Cardiac MRI: The Multi-Ethnic Study of Atherosclerosis (MESA)</td>
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<td>Yoshiaki Ohyama, Bharath Ambale-Venkatesh, Khee Yoneyama, Sirisha Donekal, Satoru Kishi, Gustavo J. Volpe, Johns Hopkins Univ, Baltimore, MD; Nisha Bensal, Bryan Kestenbaum, Univ of Washington, Seattle, WA; Tetsuya Nakamura, Gunma Univ Hosp, Maebashi, Japan; Holly Kramer, Loyola university chicago, Chicago, IL; Micheal Shipak, Univ of California, San Francisco, San Francisco, CA; Wu O. Colin, Nati Heart, Lung and Blood Inst, Bethesda, MD; David A. Bluemke, Nati Insts of Health, Bethesda, MD; Joao A. Lima, Johns Hopkins Univ, Baltimore, MD</td>
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P023  Toll-like Receptor 4 Deficiency Reduces Macrophage Mediated Renal Injury in Ang-II Induced Hypertension
Sathnur Pushpakumar, Matthew Amin, Utpal Sen, Univ of Louisville, Louisville, KY

P024  Pharmacological Treatment of Hypertension and LV Dysfunction Predictors in ESRD Patients With AV Fistula
Sayed Tariq, James Anderson, Rohit Dhinnga, Mikhail Torsosoff, Albany Medical Ctr, Albany, NY

P025  Clinical Experience on Combination Therapy With Olmesartan and Amlodipine in Treatment of Resistant Hypertension
Cyril James, Snezhana Tisheva, Diana Gaidarova, Nadia Stancheva, Dilyana Yakova, Martin Hristov, Shreya Chhi, Konstantin Gospodinov, Asik Yanakeva, Tatgna Chakalova, Univ Hosp, Dr. Georgi Stranski, Pleven, Bulgaria; Soumya Jose, MOSC Medical Coll, Kolencherry, India

P026  Relationship Between Antihypertensive Adherence and Emergency Department Blood Pressure
Candace D. McNaughton, Russell L. Rothman, Nancy J. Brown, Christianne L. Roumie, Vanderbilt Univ Medical Ctr, Nashville, TN

P027  GCH1 and GULP1 Play a Role in Hypertension Associated With Ovarian Hormone Loss Independently of Body Weight Gain
Amrita V. Pai, Samuel Woperrer, Hong Ji, Xie Wu, James Li, Kathryn Sandberg, Georgetown Univ, Washington, DC

P028  Intravenous Anti-hypertensives Used for Non-urgent Hypertension in Inpatients
Faisal Rahman, Boston Univ Medical Ctr, Boston, MA; Janice Weinberg, Boston Univ, Boston, MA; Shilah Bernard, Lindsay Arnold, Boston Univ Medical Ctr, Boston, MA

P029  Vendor Specific Differences in the Sprague Dawley Rat Strain Alter Baseline Blood Pressure and Body Composition and Influence the Impact of Slow Fetal Growth on Later Cardiovascular Risk
John Henry H. Dasinger, Suttira Intapad, Miles A. Backstrom, Anthony J. Carter, Barbara T. Alexander, Univ of Mississippi Medical Ctr, Jackson, MS

P030  Early Cognitive Deficits Induced by Diabetes Are Masked by an Increase in Exploratory Behavior: Evidence From TLR2 Knock-out Mice
Trevor Hardigan, Caterina Hernandez, Advieh Ergul, Georgia Regents Univ, Augusta, GA

P031  Cyclooxygenase Inhibition Does Not Augment Reno-protective Effect of Soluble Epoxide Hydrolase Inhibitor in Streptozotocin-induced Diabetic Rats
Mohamed A. Katary, Chelsey Pye, Ahmed A. Elmarakby, Georgia Regents Univ, Augusta, GA

P032  High Glucose Increases Prorenin Receptor (PRR) at the Cell Plasma Membrane in the Collecting Duct Which Promotes the Induction of Downstream Fibrotic Factors
Venkateswara R. Gogulamudi, Danielle Y. Arita, Camille RT Bourgeois, Ryo Yoku Satou, Minolta C. Pfeito, Tulane Univ, New Orleans, LA

P033  Acute Intravenous Glucose Injection Inhibits Tubuloglomerular Feedback and Increase Glomerular Filtration Rate
Jie Zhang, Yan Lu, Jin Wei, Kay-Pong Yip, Ruisheng Liu, Univ of South Florida, Tampa, FL

P034  Endothelin-1 Overexpression Exaggerates Diabetes-induced Endothelial Dysfunction by Altering Oxidative Stress Balance
Noureddine Idris Khodja, Sofiane Ouerd, Muhammad Oneeb Rehman Mian, Jordan Gornisky, Till Barhoumi, Pierre Paradis, Ernesto Schiffrin, Lady Davis Inst for Medical Res, Montreal, QC, Canada

P035  Endothelin-1 Overexpression Preserves Endothelial Function in Mice with Vascular Smooth Muscle Cell-specific Deletion of Ppar-gamma
Noureddine Idris Khodja, Sofiane Ouerd, Michelle Trindade, Jordan Gornisky, Asia Rehman, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Stefan Offermanns, Max-Planck-Inst for Heart and Lung Res, Bad Nauheim, Germany; Frank J. Gonzalez, Natl Cancer Inst, Natl Insts of Health, Bethesda, MD; Till Barhoumi, Pierre Paradis, Ernesto Schiffrin, Lady Davis Inst for Medical Res, Montreal, QC, Canada

P038  Testosterone Supplements Have Differential Effects on Blood Pressure in Old and Young Male Spontaneously Hypertensive Rats
Rodrigo O. Maranon, Licy L. Yanes Cardozo, Carolina Dalmasso, Chetan N. Patil, Andrew Harris, Huiming Zhang, Jane F. Reckelhoff, Univ of Mississippi Medical Ctr, Jackson, MS

P039  Testosterone Increases BP in Male SHR by Activating the Renin-angiotensin System: A Cautionary Tale for “Low T” Supplements
Rodrigo O. Maranon, Licy L. Yanes Cardozo, Carolina Dalmasso, Chetan N. Patil, Huiming Zhang, Andrew Harris, Jane F. Reckelhoff, Univ of Mississippi Medical Ctr, Jackson, MS

P040  Role of 20-HETE in Elevated Blood Pressure in Hyperandrogenemic Female Rats, a Model of Polycystic Ovarian Syndrome
Chetan N. Patil, Carolina Dalmasso, Rodrigo O. Maranon, Huimin Zhang, Richard J. Roman, Jane F. Reckelhoff, Univ of Mississippi Medical Ctr, Jackson, MS
**Poster Presentations** (continued)

**P041** Inhibition of MicroRNA-221 by Estradiol Contributes to its Differential Effects on Smooth Muscle Cell Growth and Endothelial Cell Capillary Formation  
Lisa Rigassi, Federica Barchiesi, Elisabeth Unterleutner, Bruno Imthurn, Raghvendra K. Dubey, Univ Hosp Zurich, Schlieren, Switzerland

**P042** Development of a Novel Gper-1 Knock Out Rat Model Using a Modified Crispr/cas9 Technology  
Harshal Waghule, Xi Cheng, Blair Mell, Ctr for Hypertension and Personalized Med, Univ of Toledo, Toledo, OH; Shondra Miller, Genome Engineering Ctr, Washington Univ, St. Louis, MO; Wanda Filipiak, Thomas Saunders, Transgenic Animal Model Core, Univ of Michigan, Ann Arbor, MI; Bina Joe, Ctr for Hypertension and Personalized Med, Toledo, OH

**P043** Estradiol Treatment Duration Significantly Impacts Renal Health in Midlife Ovariectomized Female Long Evans Rats  
Margaret A. Zimmerman, Emma H. Trimmer, Jill M. Daniel, Sarah H. Lindsey, Tulane Univ, New Orleans, LA

**P044** Pleiotropic Effect of a <42.5 kb QTL Region on Rat Chromosome 10 Regulating Blood Pressure and Tumorigenesis  
Xi Cheng, Harshal Waghule, Blair Mell, Univ of Toledo Coll of Med and Life Sciences, Toledo, OH; Shondra Miller, Washington Univ, St. Louis, MO; Wanda Filipiak, Thomas Saunders, Univ of Michigan, Ann Arbor, MI; Bina Joe, Univ of Toledo Coll of Med and Life Sciences, Toledo, OH

**P045** High Methionine, Low Folate and Vitamin B6/B12 Containing Diet Leads to Cognitive Functions Impairment by Epigenetic Silencing of Ntrin Gene Anuradha Kalani, Mohammed Nuru, Pradip K. Kamat, David Lominadze, Neetu Tyagi, Univ of Louisville, Louisville, KY

**P046** Interplay of Intronic and Promoter Region Polymorphisms Up-regulate Human Angiotensinogen and Cause Hypertension in Transgenic Mice  
Meenakshi Kaw, Brahmaraju Mopidevi, Daniel G. Kindell, Nitin Pur, Anita Rana, Sudhir Jain, Ashok Kumar, The Univ of Toledo, Toledo, OH

**P047** Epigenetic Mechanisms of Sodium Butyrate- and Retinoic Acid-dependent Attenuation of Renal Fibrosis and Inflammation in Npr1 Gene-targeted Mice  
Prerna Kumar, Kailash N. Pandey, Dept of Physiology, Tulane Univ Health Sciences Ctr and Sch of Med, New Orleans, LA

**P048** Blood-Pressure Associated Variants in Natriuretic Peptide Receptor C Affect Human Vascular Smooth Muscle Cells Proliferation and Calcium Flux in Response to Angiotensin II  
Meixia Ren, Fu Liang Ng, Kate Witkowski, William Harvey Res Inst, Barts and The London Sch of Med and Dentistry, Queen Mary Univ of London, London, United Kingdom; Michael Baron, Andrea Townsend-Nicholson, Structural & Molecular Biology, Univ Coll London, London, United Kingdom; Qingzhong Xiao, Adrian Hobbs, Shu Ye, Mark Caulfield, William Harvey Res Inst, Barts and The London Sch of Med and Dentistry, Queen Mary Univ of London, London, United Kingdom

**P049** Relationship between Serum Ghrelin levels and Primary Hypertension: A Meta Analysis  
Pradyumna Agasthi, Morehouse Sch of Med, Atlanta, GA; Sivakanth Aloor, Univ of Miami, Miami, FL; Avantika Chenna, Morehouse Sch of Med, Atlanta, GA; Siddharth R. Chinta, Medinova Physicians, Bronx, NY; Anekwe Onwuanyi, Morehouse Sch of Med, Atlanta, GA

**P050** Association Between Circulating Selenium Levels and Primary Hypertension: A Meta-analysis  
Pradyumna Agasthi, Morehouse Sch of Med, Atlanta, GA; Sivakanth Aloor, Univ of Miami, Miami, FL; Vivek Yarlagadda, Atlanticare Regional Medical Ctr, Atlantic City, NJ; Avantika Chenna, Anekwe Onwuanyi, Morehouse Sch of Med, Atlanta, GA

**P051** Renal Denervation Normalizes Arterial Pressure but Has No Effect on Renal Inflammation or Glucose Metabolism in Obese Hypertensive C57b16j Mice  
Ninitha Asirvatham-Jeyaraj, Ruijun Han, Jessica Fiege, Jason Foss, Maria Razzoli, Brandon J. Burbach, Alessandro Bartolomucci, Yoji Shimizu, John Osborn, Univ of Minnesota, Minneapolis, MN

**P052** Homocysteine Increases Macrophage-Derived Paraoxonase -1 Expression Independent of CD68  
Ilya Chernyavskiy, Lee Winchester, Sudhakar Veeranki, Suresh Tyagi, Univ of Louisville, Louisville, KY

**P053** Nicotine-induced Renal Inflammation in Genetic Hypertension is Not Dependent on Renal Sympathetic Nerve Activity  
Sailesh Harwani, Mark W. Chapleau, David Meyerholz, Francois Abboud, Univ of Iowa, Iowa City, IA

**P054** Inhibition of Endosomal MyD88-dependent Signaling with Chloroquine Improves Endothelial Function and Lowers Blood Pressure in Spontaneously Hypertensive Rats  
Cameron G. McCarthy, Camilla F. Wenceslau, Georgia Regents Univ, Augusta, GA; Styliani Gouloupolou, Univ of North Texas Health Sciences
Ctr, Fort Worth, TX; Safia Ogbi, Babak Baban, Georgia Regents Univ, Augusta, GA; Takayuki Matsumoto, Hoshi Univ, Toyo, Japan; R. Clinton Webb, Georgia Regents Univ, Augusta, GA

P055  Systemic Arterial Hypertension Induces Pulmonary Injury Beyond Protein Degradation and Atrophy of Diaphragm
Pamela R. Souza, Rodolfo P. Vieira, Nove de Julho Univ, São Paulo, Brazil; Karin Flues, Experimental Hypertension Lab-Heart Inst, São Paulo, Brazil; Wilson M. De-Moraes, Federal Univ of Sao Paulo, Santos, Brazil; Ayesha Medeiros, Federal Univ of Sao Paulo, Santos, Brazil; Katia De Angelis, Fernanda M. Consoli-Capuano, Nove de Julho Univ, São Paulo, Brazil; Maria C. Irigoyen, Experimental Hypertension Lab-Heart Inst, São Paulo, Brazil

P056  MHC CLass II-associated Invariant Peptide (CLIP) Antagonism During Chronic Lipopolysaccharide Treatment Preserves Afferent Arteriolar Autoregulatory Behavior
Justin Van Beuseum, Anthony K. Cook, Shali Zhang, Univ of Alabama, Birmingham, AL; Richard P. Tobin, M. Karen Newell-Rogers, Texas A&M Health Science Ctr/Baylor Scott & White Health, Temple, TX; Edward W. Inscho, Univ of Alabama, Birmingham, AL

P057  Is Hypertension a Disease of the Bone Marrow?
Jasenka Zubcevic, Monica M. Santisteban, Niousha Ahmadi, Jordan T. Schmidt, Christopher J. Martyniuk, Jessica Marulanda Carvajal, Seungbum Kim, Mohan K. Raiazada, Univ of Florida, Gainesville, FL

P058  Regional Sympathetic Activation Induced by Obstructive Apnea
Caroline B. Ferreira, Penn State Coll of Med, Hershey, PA; Sergio L. Cravo, Federal Univ of Sao Paulo, Sao Paulo, Brazil; Sean D. Stocker, Penn State Coll of Med, Hershey, PA

P059  A A Role of Aminopeptidase A in the Brain on Cardiovascular Regulation of Conscious Rat
Takuto Nakamura, Masanobu Yamazato, Akio Ishida, Yusuke Ohy, Univ of the Ryukyu Sch of Med, Nakagami-Gun Nishara-Cho, Japan

P060  Angiotensin AT1A Receptors on Vasopressin-Expressing Cells are Dispensable for DOCA-salt Hypertension
Jeremy A. Sandgren, Danny W. Linggogonero, Kristin E. Claffin, Nicole A. Pearson, Gary L. Pierce, Mark K. Santillan, Curt D. Sigmund, Justin L. Grobe, Univ of Iowa, Iowa City, IA

P061  Selective Deletion of Intracellular Renin in the Brain Causes Hypertension and Elevated Sympathetic Nervous System Activity
Keisuke Shinhara, Benjamin J. Weidemann, Matthew D. Feherty, Xuebo Liu, Donald A. Morgan, Kamal Rahmouni, Justin L. Grobe, Curt D. Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, IA

P062  Long-term Exposure to Endothelin-1 Overexpression Increases Blood Pressure and Causes Small Artery Injury
Suellen C. Coelho, Sofiane Ouedr, Julio C. Fraulob-Aquino, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Stefan Offermanns, Max-Planck-Inst for Heart and Lung Res, and J. W. Goethe Univ Frankfurt, Bad Nauheim, Germany; Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L. Chiffelin, Lady Davis Inst for Medical Res and McGill Univ, Montreal, QC, Canada

P063  Pitavastatin Has Antihypertensive and Renoprotective Effects With Upregulation of No System and Down-regulation of Oxidative Stress in the Kidney of Spontaneously Hypertensive Rats
Gaiyzun Hu, Osamu Ito, Rong Rong, Bin Xu, Akihiro Sakuyama, Takahiro Muru, Yoshiko Ogawa, Daisuke Ito, Masahiro Kohzuki, Tohoku Univ, Sendai, Japan

P064  Case Report of Mals Surgery in Postural Orthostatic Tachycardia Syndrome
Chandraleka Ashangari, Amer Suleman, Dept of Cardiology-The Heartbeat Clinic, McKinney, TX

P065  Pacemaker Tapping Maneuver in the Treatment of Orthostatic Hypotension
Chandraleka Ashangari, Amer Suleman, Dept of Cardiology-The Heartbeat Clinic, McKinney, TX

P066  Case Report on IV Albumin in Postural Orthostatic Tachycardia Syndrome with Meniere’s Disease
Chandraleka Ashangari, Stacy Elise Hamid, Amer Suleman, Dept of Cardiology-The Heartbeat Clinic, McKinney, TX

P067  Novel Antagonists of Dopamine-β-hydroxylase Identified and Validated Through Structure Based Approach to Combat Hypertension
Sanjay K. Dey, Dept of Biochemistry, Univ of Delhi South Campus, New Delhi, India; Tuyanj J. Joseph, Dept of Genetics, Univ of Delhi South Campus, New Delhi, India; Santosh Kumar, Inst of Genomics and Integrative Biology, New Delhi, India; A. Kamaladevi, Dept of Biotechnology, Alagappa Univ, Karaikudi, India; Nabanita Sarkar, B. K. Theima, Surajit Sarkar, Dept of Genetics, Univ of Delhi South Campus, New Delhi, India; K. Balamurugan, Dept of Biotechnology, Alagappa Univ, Karaikudi, India; Suman Kundu, Dept of Biochemistry, Univ of Delhi South Campus, New Delhi, India

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P068 Comparison Effects of Leptin and Phentolamine on Cardiovascular System  
Khaled M. Hasan, Univ of Maryland Eastern Shor, Princess Anne, MD

P069 1H-Magnetic Resonance Spectroscopy Reveals Elevation of Myolinositol and Other Markers of Inflammation in the Dorsal Medulla of Children with Orthostatic Intolerance  
Ashley L. Wagoner, John D. Olson, Wake Forest Sch of Med, Winston Salem, NC; John E. Fortunato, Virginia Commonwealth Univ Sch of Med, Richmond, VA; Debra I Diz, Hossam A. Shaltout, Wake Forest Sch of Med, Winston Salem, NC

P070 Exercise Prevents Cardiac Diastolic Dysfunction in a Female Model of Over-Nutrition Induced Obesity by Reducing Oxidant Stress and Fibrosis without Lowering Bodyweight  
Brian Bostick, Javad Habibi, Lixin Ma, Mona Garro, Vincent DeMarco, Guanghong Jia, Annayya Aroor, James Sowers, Univ of Missouri, Columbia, MO

P071 Mineralocorticoid Receptor Overexpression in Adipose Tissue Leads to Metabolic Syndrome and Induction of Prostaglandin D2 Synthase PTGDS and lipocalin-2 NGAL  
Alessandra Feraco, Riccardo Urbanet, INSERM, UMR_S 1138, Team 1, Ctr de Recherche des Cordeliers, UPMMC Univ Paris 06, Univ Paris, Paris, France; Aurelie Nguyen Dinh Cat, Inst of Cardiovascular and Medical Sciences, Univ of Glasgow, Glasgow, United Kingdom; Nicolas Venteclip, INSERM, UMR_S 1138, Team 8, Ctr de Recherche des Cordeliers, UPMMC Univ Paris 06, Univ Paris Descartes, F-75006, Paris, France; Soumaya El Mogrhabi, INSERM, UMR_S 1138, Team 1, Ctr de Recherche des Cordeliers, UPMMC Univ Paris 06, Univ Paris, Paris, France; Patrick Rossignol, Ctr d’Investigation Clinique - Plurithématique (CIC-P 9501), Ctr Hospier Univire (CHU) de Nancy, Vandoeuvre-les-Nancy, France; Francesco Fallo, Dept of Med (DIMED), Univ of Padova, Padova, Italy; Rhian M Touyz, Inst of Cardiovascular and Medical Sciences, Univ of Glasgow, Glasgow, United Kingdom; Frederic Jaisser, INSERM, UMR_S 1138, Team 1, Ctr de Recherche des Cordeliers, UPMMC Univ Paris 06, Univ Paris Paris Descartes, F-75006, Paris, France

Adipocyte AT2 Receptor Suppresses UCP1 Transcription and Thereby Resting Metabolic Rate  
Nicole K. Littlejohn, Benjamin J. Weidemann, Nicole A. Pearson, Meghan C. Naber, Matthew J. Poitoff, Alcyonie Klingelhutz, Curt D. Sigmund, Justin L. Grobe, Univ of Iowa, Iowa City, IA

P072 Chemerin Receptor Antagonism Improves Vascular Insulin Signaling in Diabetic Mice  
Karla B. Neves, Univ of Sao Paulo, Ribeirao Preto, Brazil; Nubia S Lobato, Univ of Goias, Jatai, Brazil; Aurelie D. Nguyen, Univ of Glasgow, Glasgow, United Kingdom; Rheure A. Lopes, Univ of Sao Paulo, Ribeirao Preto, Brazil; Katie Y Hood, Univ of Glasgow, Glasgow, United Kingdom; Fabiola L. Mestriner, Ana M. Oliveira, Univ of Sao Paulo, Ribeirao Preto, Brazil; Augusto C Montezzana, Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom; Rita C. Tostes, Univ of Sao Paulo, Ribeirao Preto, Brazil

P073 Role of Peroxisome Proliferator-Activated Receptor-γ (PPAR) γ in the Pro-opiomelanocortin (POMC) Neuron-Mediated Regulation of Energy Balance  
Madeliene Stump, Deng Fu Guo, Kamal Rahmouni, Curt D Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, IA

P074 Stroke Volume and Visceral Fat Drive Differences in Blood Pressure Between Two Generations: A Population-Based Study of Adolescents and Their Parents  
Catriana A. Syme, The Hosp for Sick Children, Toronto, ON, Canada; Michal Abrahamowicz, Gabriel Leonard, McGill Univ, Montreal, QC, Canada; Michel Perron, Louis Richer, Suzanne Veillette, Univ du Québec à Chicoutimi, Chicoutimi, QC, Canada; Daniel Gaudet, Univ de Montréal, Chicoutimi, QC, Canada; Thomas Paus, Univ of Toronto, Toronto, ON, Canada; Zdenka Pausova, The Hosp for Sick Children, Toronto, ON, Canada

P075 Suppressor of Cytokine Signaling 3 (SOCS3) in POMC Neurons and Its Role in Regulating Blood Pressure, Body Weight and Glucose in Obesity  
Zhen Wang, Jussara M. do Carmo, Univ of Mississippi Medical Ctr, Jackson, MS; Alexandre A. da Silva, Ctr Universitário Barão de Mauá, Ribeirão Preto, Brazil; John E. Hall, Univ of Mississippi Medical Ctr, Jackson, MS
Poster Presentations (continued)

P077  Atorvastatin Ameliorates Cardiac Injury and Inflammation via Adiponectin-independent Activation of AMP-activated Protein Kinase and Inhibition of the Nf-κB Pathway in Rats With Metabolic Syndrome
Yuichiro Yamada, Dept of Pathophysiological Lab Sciences, Nagoya Univ Graduate Sch Of Med, Nagoya, Japan; Shino Takeuchi, Dept of Medical Technology, Nagoya Univ Sch Of Health Sciences, Nagoya, Japan; Shogo Watanabe, Dept of Pathophysiological Lab Sciences, Nagoya Univ Graduate Sch Of Med, Nagoya, Japan; Yuji Minagawa, Dept of Medical Technology, Nagoya Univ Sch Of Health Sciences, Nagoya, Japan; Kohzo Nagata, Dept of Pathophysiological Lab Sciences, Nagoya Univ Graduate Sch Of Med, Nagoya, Japan; Muralikrishnan Dhanasekaran, Auburn Univ, Auburn, AL; Syeda H. Afroze, Univ of Alabama at Birmingham, Birmingham, AL; Mohammad N. Uddin, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; Thomas J. Drever, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; David C. Zawieja, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Maged M. Costantine, Univ of Mississippi Medical Ctr, Jackson, MS; Christopher S. Wilcox, Div of Nephrology and Hypertension Georgetown Univ, Washington, DC; Jane F. Reckelhoff, Univ of Mississippi Medical Ctr, Jackson, MS

P078  Cardiovascular Autonomic Impairment Triggers Cardiometabolic Dysfunction in an Experimental Model of Metabolic Syndrome
Nathalia Bernardes, Heart Inst (InCOR), Univ de Sao Paulo (USP) Sao Paulo, Brazil, Sao Paulo, Brazil; Filipe Fernandes Conti, Danielle da Silva Dias, Lab of Translational Physiology, Univ Nove de Julho (UNINOVE), Sao Paulo, Brazil, Sao Paulo, Brazil; Janaina de Oliveira Brito, Heart Inst (InCOR), Univ de Sao Paulo (USP) Sao Paulo, Brazil, Sao Paulo, Brazil; Christiane Malfitano, Lab of Translational Physiology, Univ Nove de Julho (UNINOVE), Sao Paulo, Brazil, Sao Paulo, Brazil; Natsumi Matsuura, Dept of Pathophysiological Lab Sciences, Nagoya Univ Graduate Sch Of Med, Nagoya, Japan; Toyoaki Murohara, Dept of Cardiology, Nagoya Univ Graduate Sch Of Med, Nagoya, Japan; Mohammad Saleem, Dept of Cardiology, Nagoya Univ Graduate Sch Of Med, Nagoya, Japan; Shogo Ito, Yusuke Sano, Kai Nagasawa, Univ of Illinois at Chicago, Chicago, IL; Luis Manuel Pardo, Univ of Texas at Austin, Austin, TX

P079  Impact of Combined Exercise Training in an Experimental Model of Hypertension Associated With Menopause
Guilherme Shimojo, Danielle Dias, Christiane Malfitano, Iris Sanches, Univ Nove de Julho, Sao Paulo, Brazil; Maria-Claudia Irigoyen, Univ of Sao Paulo, Sao Paulo, Brazil; Katia De Angelis, Univ Noe de Julho (UNINOVE), Sao Paulo, Brazil; Thomas J. Drever, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; Maged M. Costantine, Univ of Mississippi Medical Ctr, Jackson, MS; Christopher S. Wilcox, Div of Nephrology and Hypertension Georgetown Univ, Washington, DC; Jane F. Reckelhoff, Univ of Mississippi Medical Ctr, Jackson, MS; Mohammad Saleem, Dept of Cardiology, Nagoya Univ Graduate Sch Of Med, Nagoya, Japan; Shogo Ito, Yusuke Sano, Kai Nagasawa, Univ of Illinois at Chicago, Chicago, IL; Luis Manuel Pardo, Univ of Texas at Austin, Austin, TX

P080  New Strategy, Old Remedy: Elucidating the Effect of Hibiscus Sabdariffa in a Neuronal Model of Oxidative Stress
Aiman Shalgum, Parquita Jones, Anusha Angajala, Johnny Glenn, Jameal Dobbs, Pecoria Bowers, Gerald Griffin, Willard Collier, Tuskegee Univ, Tuskegee Institute, AL; Muralikrishnan Dhanasekaran, Auburn Univ, Auburn, AL; Chastity N. Bradford, Tuskegee Univ, Tuskegee Institute, AL

P081  Tempol Decreases Blood Pressure in Aged Female SHR When Treated With Acetazolamide
Carolina Dalmasso, Rodrigo O. Maranon, Chetan N. Patil, Andrew Harris, Huimin Zhang, Univ of Mississippi Medical Ctr, Jackson, MS; Christopher S. Wilcox, Div of Nephrology and Hypertension Georgetown Univ, Washington, DC; Jane F. Reckelhoff, Univ of Mississippi Medical Ctr, Jackson, MS

P082  Mitochondrial Gene Expression is Decreased in Renal Inner Medulla of Non-human Primates With Spontaneous Hypertension
Slavina B. Goleva, Megan K Rhoads, Jeffrey L Osborn, Univ of Kentucky, Lexington, KY

P083  Gender Specific Effects in Nox4-/- Mice in Hypoxia Induced Pulmonary Hypertension and Pulmonary Vascular Resistance
Katie Y. Hood, Adam P. Harvey, Margaret Nilsen, Augusto C. Montezano, Rhian M. Touyz, Margaret R. MacLean, Inst of Cardiovascular and Medical Sciences, Glasgow, United Kingdom

P084  Oxidative Stress Preconditioning Is Required for Leptin to Stimulate Renin Release From Mouse Juxtaglomerular Cells
Mariela Mendez, Harry Ford Hosp, Detroit, MI

P085  Angiotensin II Type 2-receptor Agonist C21 Reduces Proteinuria and Oxidative Stress in Kidney of High-salt Fed Obese Zucker Rats
Sanket N. Patel, Tahir Hussain, Univ of Houston Coll of Pharmacy, Houston, TX

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Mohammad Saleem, Univ of Houston, Houston, TX

P087  PDI via Keap1/Nrf2 Pathway Regulates Renal AT1 Receptors and Blood Pressure in Aging Rat
Xitao Wang Sr., Mohammad Asghar, Univ of Houston, Houston, TX

P088  Pravastatin Protects Against Glucose-induced Anti-proliferative, Anti-invasive and Anti-angiogenic Milieu in Cytotrophoblasts
Syeda H. Afroze, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Katy B. Wesley, Nathan Drexler, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; Maged M. Costantine, Univ of Texas Medical Branch, Galveston, TX; Steven R. Allen, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; David C. Zawieja, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Thomas J. Kuehl, Mohammad N. Uddin, Baylor Scott & White Health/TAMHSC-COM, Temple, TX
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<td>Nathan Campbell, Mark W. Cunningham Jr., Denise C. Cornelius, Babbette LaMarca, Univ of Mississippi Medical Ctr, Jackson, MS</td>
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<td>Mark W. Cunningham Jr., Jan Williams, Univ. of Mississippi Medical Ctr, Jackson, MS; Gerd Wallukat, Ralf Dechend, HELIOS Clinic, Experimental and Clinical Res Ctr, Max-Delbrueck Ctr, Berlin, Germany; Babbette LaMarca, Univ. Of Mississippi Medical Ctr, Jackson, MS</td>
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<td>Tarek Ibrahim, Univ of MS Medical Ctr, Jackson, MS; Lukas Przybyl, Experimental and Clinical Res Ctr, HELIOS Clinic, Berlin, Germany; Ashlyn C. Harmon, Denise C. Cornelius, Mark W. Cunningham Jr., Lorena M. Amaral, Jessica L. Faulkner, Univ of MS Medical Ctr, Jackson, MS; Ralf Dechend, Experimental and Clinical Res Ctr, HELIOS Clinic, Berlin, Germany; Babbette LaMarca, Univ Mississippi Medical Ctr, Jackson, MS</td>
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<td>Langeza Saleh, Koen Verdonk, Jan A. Danser, Eric A. Steegers, Henk Russcher, Anton H. van den Meiracker, Willy Visser, Erasmus MC, Rotterdam, the Netherlands; Ralf Dechend, HELIOS Clinic, Berlin, Germany; Babbette LaMarca, Univ Mississippi Medical Ctr, Jackson, MS</td>
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<td>Syed Siraj Ahmed Quadri, Caixia Li, Silas Culver, Helmy M. Siragy, Univ of Virginia, Charlottesville, VA</td>
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<td>Syed Siraj Ahmed Quadri, Caixia Li, Silas Culver, Helmy M Siragy, Univ of Virginia, Charlottesville, VA</td>
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Tatsuo Kawai, Takashi Obama, Takehiko Takayanagi, Steven J. Forrester, Katherine J. Elliot, Kevin Crawford, Satoru Eguchi, Victor Rizzo, Cardiovascular Res Ctr, Temple Univ Sch of Med, Philadelphia, PA

P109  Angiotensin-(1-9) Reverses Cardiac Dysfunction in a Model of Angiotensin II-Induced Hypertensive Heart Disease by Acting as a Positive Inotrope
Katrin Nather, Univ of Glasgow, Glasgow, United Kingdom; Mónica Flores-Muñoz, Univ Veracruzana, Veracruz, Mexico; Lauren Wills, Rhian M. Touyz, Kathryn N. Walsh, University of Glasgow, Glasgow, United Kingdom

P110  MrgD Expression in Cardiovascular Related Areas
Aline C. Oliveira, Augusto A. Peluso, UFMG, Belo Horizonte, Brazil; Fatimunnisa Qadri, Natalia Alenina, Michael Bader, MDC, Berlin, Germany; Robson Santos, UFMG, Belo Horizonte, Brazil

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Gabriel S. Resende, UFMG, Belo Horizonte, Brazil; Maria Paz Ocaranza, Pontificia Univ Catolica de Chile, Belo Horizonte, Chile; Robson A Santos, UFMG, Belo Horizonte, Brazil

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Mahan Shahrivari, Elizabeth Wise, Leslie C. Pettiford, Univ of Florida, Gainesville, FL; David J. Chaplin, OXIGENE, San Francisco, CA; Carl J. Pepine, Christopher R. Cogle, Univ of Florida, Gainesville, FL

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Sriravul Sriramula, Eric Lazartigues, LSU Health Sciences Ctr, New Orleans, LA

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Yu Wang, Robin Shoemaker, Sean Thatcher, Lisa Cassis, Univ of Kentucky, Lexington, KY

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P117  Lysine Specific Demethylase-1 Deficiency Accelerates the Development of Renal Damage and Hypertension During Long Term Exposure to Sodium
Isis A. Katayama Rangel, Cherish Chong, Gordon H. Williams, Luminita H. Pojoga, BWH/Harvard Medical Sch, Boston, MA

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Kathryn R. Walsh, Richard D. Wainford, Boston Univ Sch of Med, Boston, MA
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P121 Vascular Protective Effects of Telomerase Activity Are Independent of Nuclear Function
Johnathan D. Ebben, Joseph Hockenberry, Ming You, Andreas M. Beyer, Medical Coll of Wisconsin, Milwaukee, WI

P122 Mitochondrial Transcription Factor 2B Regulates Endothelial Cell Morphology
Steven J. Forrester, Tatsuo Kawai, Katherine J. Elliot, Kunie Eguchi, Joon Y. Park, Victor Rizzo, Satoru Eguchi, Temple Univ, Philadelphia, PA

P123 Retinol-Binding Protein 7 (RBP7) Regulates Endothelial Function via an Adiponecint-Dependent Mechanism in Angiotensin II-Infused Mice
Chunyan Hu, Henry L. Keen, Univ of Iowa Carver Coll of Med, Iowa City, IA; Silke Vogel, DUKE-NUS Graduate Medical Sch, Singapore, Singapore; Frank M Faraci, Curt D. Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, IA

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David M. Jensen, Michael E. Widlansky, Chen Chu, Pengyuan Liu, Yong Liu, Alison Kriegel, Jingli Wang, Mobin Malik, Rong Ying, Allison Couillard, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

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Satoshi Kameshima, Yuzaburo Sakamoto, Muneyoshi Okada, Hideyuki Yamawaki, Kitasato Univ, Towada city, Japan

P126 Angiotensin II-induced Arterial Hypertension, Vascular Dysfunction and Inflammation is Promoted by Platelet-localized Coagulation Factor XI
Sabine Kossmann, Kerstin Jurk, Sven Jäckel, Tanja Schönfelder, Moritz Ehiken, Jérémy Lagrange, Maikie Knorr, Moritz Brandt, Susanne Helena Karbach, Andreas Daiber, Matthias Oelze, Christoph Reinhardt, Karl Lackner, Univ Medical Ctr Mainz, Mainz, Germany; Brett Monia, Isis Pharmaceuticals, Inc., Carlsbad, CA; Ulrich Walter, Univ Medical Ctr Mainz, Mainz, Germany; Zaverio Ruggeri, Scripps Res Inst, San Diego, CA; Thomas Renné, Karolinska Instt, Stockholm, Sweden; Wolfram Ruf, Thomas Münzel, Philip Wenzel, Univ Medical Ctr Mainz, Mainz, Germany

P127 Angiotensin II Priming Enhances Prostaglandin E2 Vasoconstrictor Effects
Maria P. Kraemer, Fred Lamb, Vanderbilt Univ, Nashville, TN; Richard M. Breyer, Veterans Affairs Medical Ctr and Vanderbilt Univ, Nashville, TN

P128 RhoBTB1, a Novel PPARγ Target Gene Regulates Vascular Function
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P129 20-HETE Antagonist, 20-SOLA, Restores Coronary Collateral Growth in the Metabolic Syndrome

P130 The Influence of Maternal Obesity on Perivascular Adipose Tissue Function in Offspring
Karolina E. Zaborska, Univ of Manchester, Manchester, United Kingdom; Clare Austin, Edge Hill Univ, Ormskirk, United Kingdom; Mark Wareing, Gillian Edwards, Univ of Manchester, Manchester, United Kingdom

P131 Mef2C-MYOCD and Leiomyosin1 Suppression by miRNA-214 Promotes Smooth Muscle Cell Phenotype Switching in Pulmonary Arterial Hypertension
Sanghamitra Sahoo, Daniel Meijles, Imad Al Ghouleh, Manuj Tandon, Eugenia Cifuentes-Pagano, John Sembrant, Mauricio Rojas, Elena Goncharova, Patrick Pagano, Vascular Med Inst, Pittsburgh, PA

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P132 MEF2C-MYOCD and Leiomodin1 Suppression by miRNA-214 Promotes Smooth Muscle Cell Phenotype Switching in Pulmonary Arterial Hypertension
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P133 Mitochondrial- Dependent Apoptosis in Arterial Remodeling: Link to Hypertension
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P134 Identification of Tissue Inhibitor of Metalloproteinases (TIMP)-4 as a Novel PPARγ Target in Smooth Muscle Cell
Pimonrat Ketsawatsomkron, Ko-Ting Lu, Madeliene Stump, Henry L. Keen, Curt D. Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, IA

P135 Deletion of the Mas Receptor Aggravates Vascular Dysfunction and the Development of Atherosclerosis Through a NO-dependent Mechanism in Apolipoprotein E-deficient Mice
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P136 What is the Impact of Arterial Stiffness on Brain's Health
Helene Girouard, Dima Obari, Gervais Muhire, Diane Vallerand, Nataliya Sadekova, Univ de Montreal, Montreal, QC, Canada

P137 Accelerated Arterial Stiffness During the Menopausal Transition - Results from Study of Women’s Health Across the Nation
Zubair A. Khan, Cooper Univ Hosp, Camden, NJ; Imike Janssen, Rush Univ Medical Ctr, Chicago, IL; Joanne K. Mazzarello, Cooper Univ Hosp, Camden, NJ; Lynda H. Powell, Andrius Dumasius, Rush Univ Medical Ctr, Chicago, IL; Susan A. Everson-Rose, Univ of Minnesota, Minneapolis, MN; Emma Barinas-Mitchell, Univ of Pittsburgh, Pittsburgh, PA; Perry J. Weinstock, Steven M. Hollenberg, Cooper Univ Hosp, Camden, NJ

P138 Novel Arterial Stiffness Index Was Associated with Pulmonary Function
Masaki Okamoto, Fumiaki Nakamura, Yasuki Kobayashi, The Univ of Tokyo, Bunkyo-ku, Tokyo, Japan; Terunaga Musha, Hachinohe West Health Medical Plaza, Hachinohe, Aomori, Japan

P139 F13 Level Correlates with Arterial Stiffness and Systolic Blood Pressure: A Cross-sectional Study
Wenyao Wang, Fuwai Hosp, Natl Ctr for Cardiovascular Diseases, CAMS & PUMC, Beijing, China; Maria A. Carrillo-Sepulveda, Dept of Biomedical Sciences, New York Inst of Technology- Coll of Osteopathic Med, New York, NY; Yuejiong Yang, Yi-Da Tang, Fuwai Hosp, Natl Ctr for Cardiovascular Diseases, CAMS & PUMC, Beijing, China

P140 Alamandine Signaling in Cardiomyocytes in Health and Disease
Itamar C. G. Jesus, Sergio Scalaio, Cibele Rocha-Resende, Robson A. S. Santos, Silvia Guatimosim, Federal Univ of Minas Gerais, Belo Horizonte, Brazil

P141 Cardiac TRH Partly Mediates Angiotensin II-induced Fibrotic and Hypertrophy Effects in “in vivo” and “in vitro” Models
Silvia I. Garcia, Ludmila S. Peres Diz, Maia Asicovich, Mariano L. Schuman, Maria S. Landa, Molecular Cardiology Lab, Inst Med Res, (UBA-CONICET) Capital Federal, Argentina

P142 Regulation of Brain Derived Neurotrophic Fractor (BDNF) Expression by Angiotensin II in the Adrenals and the Brain
Hong-Wei Wang, Jiao Lu, Monir Ahmad, Frans H. H. Leenen, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

P143 The Angiotensin AT2 Receptor Agonist Compound 21 Is a Low Affinity Thromboxane A2 Receptor Antagonist
Ulrike M. Steckelings, Maise Fredgart, Thomas Leurgans, Martin Stenelo, Mads Nybo, Lars M. Rasmussen, Jo G. De Mey, Univ of Southern Denmark, Odense C, Denmark

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Jonathas F. Almeida, Robson A. Santos, UFMG, Belo Horizonte, Brazil

P145 Immuno-neutralization of Endogenous Ouabain Lowers Blood Pressure in Angiotensin II-dependent Models
Ling Chen, John M. Hamlyn, Mordecai P. Blaustein, Univ. of Maryland Sch. of Med, Baltimore, MD
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**P146**  Serum Soluble (Pro)Renin Receptor Levels in Patients Undergoing Hemodialysis
Satoshi Morimoto, Yoshifumi Amari, Shihori Kimura, Kanako Bokuda, Daisuke Watanabe, Midori Yatabe, Junichi Yatabe, Takashi Ando, Atsuhiro Ichihara, Tokyo Women’s Medical Univ, Tokyo, Japan

**P600**  Conditional Knockout of AT1a Receptors Selectively in The Proximal Tubules Attenuates Renal Ischemia-Reperfusion Injury in Mice
Jianfeng Zhang, Xiaojun Li, Fang Chen, Univ of Mississippi Medical Ctr, Jackson, MS; Manoceher Soleimani, Univ of Cincinnati, Cincinnati, OH; Jia L. Zhuo, Univ of Mississippi Medical Ctr, Jackson, MS

**P601**  Matrix Metalloproteinase 2 Plays An Important Role In Angiotensin II-induced Vascular Injury Mediated In Part Through Epidermal Growth Factor Receptor Activation In Vascular Smooth Muscle Cells
Tilli Barhoumi, Muhammad Oneeb Rehman Mian, Julio C. Fraulob-Aquino, Asia Rehman, Nourredine Idris-Khodja, Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L. Schirripa, Sir Mortimer B. Davis-Jewish General Hosp, Montreal, QC, Canada

**P602**  Patiromer Decreased Aldosterone, Urine Albumin/Creatinine Ratio, and Blood Pressure in Patients with Chronic Kidney Disease and Hyperkalemia on RAAS Inhibitors: Results from OPAL-HK
Matthew Weir, Univ of Maryland, Baltimore, MD; George Bakris, Univ of Chicago, Chicago, IL; Coleman Gross, Martha Mayo, Dahlia Garza, Yuri Stasiv, Jinwei Yuan, Lance Berman, Retypea, Redwood City, CA; Gordon Williams, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA

**P603**  Age and Angiotensin-(1-12) Expression in Human Atrial Tissue of Patients with Left Heart Disease

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**Clinical /Blood Pressure/Therapeutic/Other 1**

**Poster Chairs:**
Karen Griffin, MD, Loyola University Medical Center, Maywood, Illinois
TBD

**P147**  Office Blood Pressure: An Inadequate Guide to the Diagnosis and Treatment of Hypertension
Jay Cohn, Sue Duval, Natalia Florea, Lynn Hoke, Daniel Duprez, Univ of Minnesota, Minneapolis, MN

**P148**  Ambulatory Blood Pressure in Hypertensive Patients Treated with Different 2-Drug and 3-Drug Combinations
Alejandro De la Sierra, Hosp Mutua Terrassa, Terrassa, Spain; Manuel Gorostidi, Jose R. Banegas, Julian Segura, Ernest Vinyoles, Juan J. De la Cruz, Luis M. Ruijlope, Spanish ABPM Registry, Barcelona, Spain

**P149**  Distinct Profiles of Brain Medullary Metabolites Detected by 1H-Magnetic Resonance Spectroscopy Correlate with Indices of Autonomic Function and Visceral Fat in Healthy Adults

**P150**  Podocyte Derived Urinary Microparticles Are Elevated in Angiotensin II Induced Hypertension
Uta Erdbrügger, Christine Rudy, Deric Bennett, Sylvia Cechova, Fang Chang, Thu H. Le, Univ of Virginia Health System, Charlottesville, VA

**P152**  Acute Effect of Unilateral Unipolar Electrical Carotid Sinus Stimulation in Patients with Treatment-Resistant Arterial Hypertension
Karsten Heusser, Julia Blinkmann, Jan Menne, Jessica Kaufeld, Silvia Linnenweber-Held, Hannover Med Sch, Hannover, Germany; Joachim Beige, Hosp St. Georg, Leipzig, Germany; Mathias Wilhelmi, Hannover Med Sch, Hannover, Germany; André Diedrich, Vanderbilt Univ, Nashville, TN; Hermann Haller, Jens Jordan, Jens Tink, Hannover Med Sch, Hannover, Germany

**P153**  Impact of Antibiotic Treatment on Antihypertensive Drug Adherence
Maria Kassi, Linsay McCallum, Scott Muir, Rhian Youz, Anna F. Dominiczak, Sandosh Padmanabhan, Univ of Glasgow, Glasgow, United Kingdom

**P154**  Ultrasound Imaging for Serial Measurements of Venous Diameters in Rats
Teresa Krieger-Burke, Bridget Mahon Seitz, Gregory D. Fink, Stephanie W Watts, Michigan State Univ, East Lansing, MI

**P155**  Inadequate Blood Pressure Control in Hypertensive Patients Referred for Cardiac Stress Test
Tarek M. Mousa, Queens Heart Inst, Laurelton, NY; Oluwaseun A. Akinseye, Icahn Sch of Med at Mount Sinai, Queens Hosp Ctr, Jamaica, NY; Todd C. Kerwin, The New York Hosp Medical Ctr of Queens/Cornell Univ Medical Coll, Flushing, NY

**P156**  A Novel Gene-based Tool to Predict the Risk of Essential Hypertension and Initial Validation
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Harm Knot, Gary Miller, TSE Systems Inc., Chesterfield, MO

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Adam E. Mullick, Steve T. Yeh, Mark J. Graham, Rosanne M. Crooke, ISIS Pharmaceuticals, Carlsbad, CA

P606 Blood Pressure Regulation in Patients with Meniere’s Disease
Donna M. Kioseff, Medical Coll of Georgia at Georgia Regents Univ, Augusta, GA; Deborah L Stewart, Gregory A. Harshfield, Georgia Regents Univ, Augusta, GA

Cerebrovascular Disease and Stroke
Poster Chairs:
Costantino Iadecola, MD, FAHA, Weill Cornell Medical College, New York, New York
Anne Dorrance, BS, PhD, FAHA, Michigan State University, East Lansing, Michigan

P157 Tractography of White Matter Connections Predicts for Vascular Cognitive Impairment in Hypertensive Patients
Lorenzo Carnevale, Giulio Selvettella, Daniela Cugino, Giovanni Grilea, IRCCS Neuromed, Pozzilli (IS), Italy; Giuseppe Lembo, Daniela Carnevale, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli (IS), Italy

P158 Increased Circulating Cathepsin K in Patients with Chronic Heart Failure
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P159 Effect of Pharmacological Kinin Receptor Activation on Brain Damage and Mortality in Experimental Cerebral Ischemia in Non-diabetic and Diabetic Mice
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P161 Angiotensin Receptor Blockade Decreases Glutamate-induced Brain Inflammation
Juan Saavedra, Georgetown Univ Medical Ctr, Washington, DC; Abdel G. Elkahloun, NIH – NHGRI, Bethesda, MD; Roman Hafko, NIMH, Bethesda, MD

Chronic Kidney and Renal
Poster Chairs:
Edward W. Inscho, PhD, The University of Alabama at Birmingham, Birmingham, Alabama
L. Gabriel Navar, PhD, Tulane University, New Orleans, Louisiana

P162 Nicotine via Cd36, Cox2 and Oxidative Stress Promotes Podocyte Injury: Link Between E-cigarettes and Renal Disease Progression?
Leopoldo Raji, Univ of Miami-VA Medical Ctr - SFVAFRE, Miami, FL; Ruxia Tian, SFVAFRE, Miami, FL; Ming-Sheng Zhou, Liaoning Medical Univ, JinZhou, China

P163 Endothelin-1 induces Epithelial-Mesenchymal Transition (EMT) in Human Renal Tubular Cells via Activation of RhoA /ROCK Kinase and Inhibition of YAP Pathways
Theresa Maria Seccia, Brasilia Carocci, Francesca Gioco, Maria Piazza, Valentina Buccella, Barbara Montini, Diego Guidolin, Eugenia Guerzoni, Elisa Pagnin, Verdana Raravotto, Lorenzo Calè, Anna Sandra Belloni, GianPaolo Rossi, Univ Hosp, Padua, Italy

P164 White-coat Hypertension is a Factor Relating Postural Blood Pressure Dysregulation and Cardiovascular Risks
Yasuharu Tabara, Kyoto Univ, Kyoto, Japan; Michiya Igase, Ehime Univ, Ehime, Japan; Tetsuro Miki, Kyoto Univ, Kyoto, Japan; Katsuhiko Kohara, Ehime Univ, Ehime, Japan

P165 Incident and Associated Factors of Restenosis After Percutaneous Transluminal Renal Angioplasty in Renovascular Hypertensive Patients
Yoshio Iwashima, Tetsuya Fukuda, Fumiki Yoshihara, Hiroshi Kusunoki, Masatsugu Kishida, Shin-ichirou Hayashi, Satoko Nakamura, Natl Cerebral and Cardiovascular Ctr, Suita, Osaka, Japan; Kei Kamide, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan; Takeshi Hirao, Kawasaki Medical Sch, Okayama, Japan; Yuhei Kawano, Natl Cerebral and Cardiovascular Ctr, Suita, Osaka, Japan

P166 The Effects of V2 Receptor Antagonist Treatment on the Renal Medullary Circulation and Urinary Sodium Excretion in Rat
Yusuke Ohkaki, Takemori Mori, Kento Akao, Yoshimi Nakamichi, Chika Takahashi, Sadayoshi Ito, Tohoku Univ, Sendai, Japan

Next year’s conference: Sept. 14–17, 2016 … visit my.americanheart.org for more information.
Poster Presentations (continued)

P167  Conditional Deletion of the Na+/H+ Exchanger 3 in the Proximal Tubule of the Kidney Promotes Pressure Natriuresis in Mice
Xiao C. Li, Univ of Mississippi Medical Ctr, Jackson, MS; Manoocher Soleimani, Univ of Cincinnati, Cincinnati, OH; Hoang Nguyen, Univ of Mississippi Medical Ctr, Jackson, MS; Hong Li, Univ of Cincinnati, Cincinnati, OH; Richard J. Roman, Jia L. Zhuo, Univ of Mississippi Medical Ctr, Jackson, MS

P168  ChIP-seq Analysis of Genomic Binding Sites for the Transcription Factor Fosl2 in Kidney Collecting Duct Cells
Hyun Jun Jung, Viswanathan Raghuram, Chung-Lin Chou, Mark Knepper, NHLBI, Bethesda, MD

P607  Deletion of GPER Protects from Age-related Renovascular Dysfunction and Tubulo-interstitial Injury
Matthias R. Meyer, Univ of New Mexico Health Sciences Ctr, Albuquerque, NM; Christoph Daniel, Friedrich-Alexander-Univ of Erlangen-Nürnberg, Erlangen, Germany; Natalie C. Fredette, Univ of New Mexico Health Sciences Ctr, Albuquerque, NM; Kerstin Amann, Friedrich-Alexander-Univ of Erlangen-Nürnberg, Erlangen, Germany; Matthias Barton, Univ of Zürich, Zürich, Switzerland; Eric R. Prossnitz, Univ of New Mexico Health Sciences Ctr, Albuquerque, NM

Developmental Programming/Gender Differences/Pregnancy
Poster Chairs:
Babbette LaMarca, Ph.D, University of Mississippi Medical Center, Jackson, Mississippi
S. Ananth Karumanchi, MD, Beth Israel Deaconess Medical Center, Renal Division, Boston, Massachusetts

P169  Antenatal Betamethasone Attenuates the Angiotensin-(1-7)/Nitric Oxide Axis in Adult Male but not Female Renal Proximal Tubule Cells
Yixin Su, Victor M. Pulgar, Jianli Bi, Mark Chappell, James C. Rose, Wake Forest Sch of Med, Winston Salem, NC

P170  Portfolio Analysis on Sex and Gender Differences Research in Hypertension at the National Heart, Lung and Blood Institute
Christine Maric-Bilkan, Zorina Galis, NIH, Bethesda, MD

P171  Mast Cell Inhibition Attenuates Cardiac Remodeling and Diastolic Dysfunction in Ovariectomized, Middle-aged Fischer344×Brown Norway Rats
Hao Wang, Wake Forest Sch of Med, Winston-Salem, NC; Jaqueline da Silva, Allan Alencar, Federal Univ of Rio de Janeiro, Rio de Janeiro, Brazil; Marina S. Lin, Xuming Sun, Sanfaraz Ahmad, Carlos M. Ferrario, Leanne Groban, Wake Forest Sch of Med, Winston-Salem, NC

P172  Sex Differences in Obesity Associated Diastolic Dysfunction in Western Diet Fed Mice
Annayya Aroor, Javad Habibi, Vincent G. DeMarco, Guanghong Jia, Mona Garro, Camila Manrique, James Sowers, Univ of Missouri, Columbia, MO

P173  Serum Soluble and Placental (Pro)Renin Receptor in Normal and Preeclamptic Pregnancy
Saiara Choudhury, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Jami L. Stucker, Michelle Reyes, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; Syeda H. Afroz, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Nathan Drever, Steven R. Allen, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; David C. Zawieja, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Thomas J. Kuehl, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; Fumiaki Suzuki, Gifu Univ, Gifu, Japan; Mohammad N. Uddin, Baylor Scott & White Health/TAMHSC-COM, Temple, TX

P174  Comparison of Groups With and Without Diabetes Mellitus and Preeclampsia in Pregnancy: A Retrospective Case-control Comparison
Jessica L. Wilson, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Mary A Co, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; Syeda H. Afroz, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Ram R. Kaliagiri, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; Sarah Munir, Univ of Texas, Austin, TX; Nathan Drever, Madhava R. Beeram, Thomas J. Kuehl, Mohammad N. Uddin, Baylor Scott & White Health/TAMHSC-COM, Temple, TX

P175  Impairment of Autonomic Function Precedes Blood Pressure Elevation in Rat Model of Pre-eclampsia
Hossam A. Shaltout, Liluya M. Yamaleyeva, Hypertension and Vascular Res Ctr, Wake Forest Sch of Med, Winston Salem, NC; Michael Bader, Max Delbrück Ctr for Molecular Med, Berlin, Germany; Ralph Dechend, Charité Univ Hosp Berlin, Berlin, Germany; Bridget Brosnihan, Hypertension and Vascular Res Ctr, Wake Forest Sch of Med, Winston Salem, NC

P176  Predicting Preeclampsia Using Copeptin in Women at Low Risk of Disease
Donna Santillan, Benjamin Majors, Sabrina Scroggins, Eric Devor, Gideon Zamba, Gary Pierce, Kimberly Leslie, Curt Sigmund, Justin Grobe, Mark Santillan, Univ of Iowa, Iowa City, IA
P177  The Myotrophoblast of the Rat Placenta Ex Vivo Study of Nitric Oxide Synthase Inhibition
Ilana Ariel, Galina Skarzinski, Vitali Belzer, Hadassah-Hebrew Univ, Medical Ctr, Mount-Scopus, Jerusalem, Israel; Wiesssam Abu Ahmad, Hadassah-Hebrew Univ, Medical Ctr, Ein-Kerem, Jerusalem, Israel; Zaid Abassi, RS Rappaport Faculty of Med-Technion, Haifa, Israel; Michael Bursztyn, Hadassah-Hebrew Univ, Medical Ctr, Mount-Scopus, Jerusalem, Israel

P178  Depletion of Gamma-Delta T Cells Protects Against Toll-Like Receptor-Induced Preeclampsia in Mice
Kelsey R. Bounds, Valorie L. Chiasson, Richard P. Tobin, M. Karen Newell-Rogers, Brett M. Mitchell, Texas A&M Health Science Ctr, Temple, TX

P608  Role Of Nitric Oxide in the Pathophysiology of Hypertension Associated With Low Nephron Endowment
Reetu R. Singh, Lawerance K. Easton, Monash Univ, Melbourne, Australia; Markus P. Schaich, Baker IDI, Melbourne, Australia; Geoff A. Head, BakerDI, Melbourne, Australia; Karen M. Moritz, Univ of Queensland, Brisbane, Australia; Kate Denton, Monash Univ, Melbourne, Australia

P609  Estrogen Receptor ERα Plays a Major Role in Oxidative Stress Dependent Myocardial Dysfunction Caused by Ethanol in Conscious Female Rats
Fanrong Yao, Abdel A. Abdel-Rahman, East Carolina Univ, Greenville, NC

P610  Alterations in 20-HETE Production Contribute to End Organ Damage in Dahl S Rats
Fan Fan, Wenjie Wu, Sydney Murphy, Univ of Mississippi Medical Ctr, Jackson, MS

P611  Vascular-mediated Preterm Birth is Associated with Cardiovascular Risk after Pregnancy
Janet M. Catov, Univ of Pittsburgh Dept of OB, Gynecology RS, Pittsburgh, PA; Steven E. Reis, Univ of Pittsburgh Dept of Cardiology, Pittsburgh, PA; Matthew F. Muldoon, Univ of Pittsburgh Dept of Med, Pittsburgh, PA; Roberta B. Ness, Univ of Texas, Houston, TX; Lanah Nguyen, Univ of Pittsburgh Dept of Neuropathy, Pittsburgh, PA; W. Tony Parks, Univ of Pittsburgh Dept of Pathology, Pittsburgh, PA

P612  TLR3-Induced Placental miR-155 Contributes to Preeclampsia by Augmenting Inflammation
Kelsey R. Bounds, Collin P. Cruatsinger, Valerie L. Chiasson, Piyali Chatterjee, Baylor Scott & White Health/Texas A&M Health Science Ctr, Temple, TX

P613  The Effect of Metabolic Factors on Hypoxia-Induced sFlt-1 Secretion in Rat Placental Villi
Ana C. Palei, Frank T. Spradley, Joey P. Granger, Univ of Mississippi Medical Ctr, Jackson, MS

P614  Renin Angiotensin System: A Placental Perspective
Athar H. Siddiqui, Rahul Negi, Sch of Medical Sciences, Univ of Hyderabad, Hyderabad, India; Vemananda Hantha, Ramanan Duraiswami, Nuzhat Aiz, Fernandez Hosp Educational and Res Fndn, Hyderabad, India

Genetics, Epigenetics, Proteomics and Metabolomics
Poster Chairs:
Anna Dominiczak, OBE, MD, FMedSci, FRCP, FRSE, Editor-in-Chief, Hypertension, University of Glasgow, Glasgow, UK
TBD

P179  miR-214 Reduces Termination Efficiencies of Alternative Transcriptional Termination Sites
Yong Liu, Chun Yang, Pengyuan Liu, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

P180  Dopamine D2 Receptors Regulate Wnt Signaling and Apoptosis in Human Renal Proximal Tubule Cells
Fei Han, Yanrong Zhang, Prasad Konkalmatt, John E. Jones, Univ of Maryland Sch of Med, Baltimore, MD; John Gildea, Univ of Virginia Dept of Pathology, Charlottesville, VA; Robin A. Felder, Univ of Virginia Dept of Pathology, Charlottesville, VA; Pedro A. Jose, Ines Armando, Univ of Maryland Sch of Med, Baltimore, MD

P181  Circulating Second-messenger Glycerophosphocholines and Cardiovascular Risk Factors in a Population-based Sample of Adolescents
Simon Czajkowski, Univ of Toronto, Toronto, ON, Canada; Michal Abrahamowicz, Gabriel Leonard, McGill Univ, Montreal, QC, Canada; Michel Perron, Louis Richer, Suzanne Veillette, Univ of Quebec in Chicoutimi, Chicoutimi, QC, Canada; Daniel Gaudet, Univ of Montreal, Montreal, QC, Canada; Yun Wang, Hongbin Xu, Graeme Taylor, Univ of Ottawa, Ottawa, QC, Canada; Tomas Paus, Univ of Toronto, Toronto, ON, Canada; Zdenka Pausova, Univ of Toronto, Toronto, ON, Canada

P615  Hypertension-Dependent Reprogramming of the Endothelial Transcriptome
Jonathan W. Nelson, Anthony P. Barnes, Sanjiv Kaul, David H. Ellison, Oregon Health and Science Univ, Portland, OR
**Inflammation, Immunity and Cytokines/Oxidative Stress**

**Poster Chairs:**
Bernardo Rodriguez-Iturbe, MD, PhD, Hospital Universitario and Instituto Venezolano de Investigaciones Científicas (IVIC) Zulia, Maracaibo, Venezuela
Michael Ryan, PhD, University of Mississippi Medical Center, Jackson, Mississippi

**P182** Advanced Atherosclerosis is Associated with Systemic and End-organ Inflammation, Vascular Oxidative Stress and Endothelial Dysfunction but not Hypertension in Mice
Quynh N. Dinh, Grant R. Drummond, Henry Diep, Christopher T. Chan, Dorota Ferens, Christopher G. Sobey, Sophocles Christoobolis, Dept of Pharmacology, Monash Univ, Melbourne, Australia

**P183** Myeloid-Derived Suppressor Cells Prevent Cyclosporine A-Induced Hypertension, Endothelial Dysfunction, and Renal Injury in Mice
Valorie L. Chiasson, Kelsey R. Bounds, Abhinandan R. Pakanati, Bilal Aziz, Marcos H. Roman, Brett M. Mitchell, Texas A&M Health Science Ctr, Temple, TX

**P184** Effects of Vagus Nerve Stimulation on Hemodynamics and Inflammation in a Rheumatoid Arthritis Model in Rats
Helio C. Salgado Sr., Daniel P. Dias, Gabriel S. Bassi, Alexandre Kanashiro, Thiago M. Cunha, Sch of Med of Ribeirão Preto, Ribeirão Preto, Brazil

**P185** Cardiometabolic and Inflammatory Biomarkers in the Dahl Salt-sensitive Rat

**P186** Aging Induces Endothelial Dysfunction and Leukocyte Trafficking via Downregulation of Calpastin
Rosario Scalia, Inna Rom, Satoru Eguchi, Temple Univ, Philadelphia, PA

**P187** The Salt Sensitivity of Human GRK4 Transgenic Mice is Associated With Renal Oxidative Stress
Zhenyu Diao, Grant R. Drummond, Henry Diep, Christopher T. Chan, Dorota Ferens, Christopher G. Sobey, Sophocles Christoobolis, Dept of Pharmacology, Monash Univ, Melbourne, Australia

**P188** Mitochondrial Redox Phenotype Contributes to Angiotensin Induced Hypertension
Amber Neville, Igor Leskov, David Krzywanski, LSU Health Science Ctr-Shreveport, Shreveport, LA

**P189** Angiotensin II-Endocannabinoid Interactions in the Nucleus of the Solitary Tract are Important for Regulation of Baroreflex Control of Heart Rate
Debra I. Diz, Ellen N. Tommasi, Allyn C. Howlett, Hossam A. Shaltout, Wake Forest Sch of Med, Winston Salem, NC

**P190** Increases in Cerebrospinal Fluid NaCl Concentration Excites Neurons of the Organum Vasculosum of the Lamina Terminalis to Elevate Sympathetic Outflow and Blood Pressure
Sarah S. Simmonds, Haly L. Nation, Sean D. Stocker, Penn State Univ Coll of Med, Hershey, PA

**P191** Both Mineralocorticoid Receptor and Angiotensin II type 1 Receptors in the Subfornical Organ Mediate Angiotensin II Induced Reactive Oxygen Species (ROS) in Brain Angiotensinergic Pathways
Hong-Wei Wang, Roselyn White, Bing S Huang, Aidong Chen, Monir Ahmad, Frans H.H Leenen, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

**P192** Upregulation of Brain Renin-angiotensin System and Inflammation Mediates Leptin Sensitization of Angiotensin II-induced Hypertension
Baolian Xue, Dept of Psychology, Univ of Iowa, Iowa City, IA; Yang Yu, Internal Med, Univ of Iowa, Iowa City, IA; Fang Guo, Terry G Beltz,
Poster Presentations (continued)

Dept of Psychology, Univ of Iowa, Iowa City, IA; Robert B. Felder, Internal Med, Univ of Iowa, Iowa City, IA; Alan Kim Johnson, Dept of Psychology, Pharmacology and the Cardiovascular Ctr Univ of Iowa, Iowa City, IA

P620 Renal Nerve Denervation Modulates GABA-ergic Input into Paraventricular Nucleus of the Hypothalamus and Exerts a Long Term Antihypertensive Effect in Hypertensive Mice Associated with Chronic Kidney Disease
Masaaki Nishihara, Yoshitaka Hirooka, Kyushu University, Fukuoka, Japan

P621 Cellular Localization of Angiotensin Type 1a Receptor mRNA in the Paraventricular Nucleus of the Hypothalamus
Meng Liu, Annette D. De Kloet, Eric G. Krause, Colin Summers, Univ of Florida, Gainesville, FL

P622 Regulation of Neuroprotective Myeloid Cell Leukemia 1 by Rapamycin and AT2R Agonists in Dopaminergic Neuronal Cell-line
Jamal Bajwa, Lakshmi Pulakat, Univ of Missouri-Columbia, Columbia, MO

Receptors and Signal Transduction/Vascular Biology and Stiffness
Poster Chair: James Sowers, MD, University of Missouri, Columbia, Missouri

P194 A Novel Signalosome in the Alpha1a-Adrenergic Receptor and its Genetic Variant Signaling Pathway
Ekaterina Babaeva, Irina Gradinaru, Univ of Washington, Seattle, WA; Debra A. Schwinn, Univ of Iowa, Iowa City, IA; Anush Oganesian, Univ of Washington, Seattle, WA

Anagha Sen, Prerna Kumar, Kailash N. Pandey, Tulane Univ Sch of Med, New Orleans, LA

P196 Chemerin Activates Procontractile Pathways in Isolated Arteries
Emma Darios, Janice Thompson, Nguyen Wren, Rosa Torres, Aisha Kelly, Stephanie W. Watts, Michigan State Univ, East Lansing, MI

P197 Extracellular Ubiquitin Blocks CXCL12-Induced Proliferation of Cardiac Fibroblasts
Edwin K. Jackson, Eric Mi, Vladimir B. Ritov, Delbert G. Gillespie, Univeristy of Pittsburgh, Pittsburgh, PA

P198 Differential Regulation of Endothelial Nitric Oxide Synthase Phosphorylation by Protease-Activated Receptors in Adult Human Endothelial Cells
Lakeisha C. Tillery, Evangeline D. Motley-Johnson, Meharry Medical Coll, Nashville, TN

P199 Uric Acid Promotes Vascular Stiffness, Immune Inflammatory Response and Proteinuria in Western Diet Fed Mice
Annayya Aroor, Guanghong Jia, Vincent G. DeMarco, Javad Habib, Zhe Sun, Mona Garro, Luis Martinez-Lemus, Ravi Nistala, Adam Whaley-Connell, Gerald Meiningger, James Sowers, Univ of Missouri, Columbia, MO

P200 Endothelial Estrogen Receptor Alpha Does Not Protect Female Mice Against Western Diet Induced Vascular Stiffness
Camila Manrique, Guido Lastra, Dominic Haertling, Vincent DeMarco, Annayya Aroor, Guanghong Jia, Francisco I. Ramirez-Perez, Luis Martinez-Lemus, Univ of Missouri, Columbia, MO; Richard Karas, Tufts Univ, Medford, MA; Pierre Chambon, Univ of Strasbourg, Strasbourg, France; James Sowers, Univ of Missouri, Columbia, MO

P260 Role of Primary Endothelial Cilia in Hypertension
Hannah Saternos, Md Zubayer Hossain, Wissam Aboutaiwi, Univ of Toledo, Toledo, OH

P623 Nutrient Stress Response of Cardiovascular Cells to β-Blockers, ARB and AT2R Agonists
Abuzar Mahmood, Lakshmi Pulakat, Univ of Missouri-Columbia, HSTVAMH, Columbia, MO

P624 Characterisation of the Chemerin Axis in the Human Vasculature
Amanda Kennedy, Rhoda Kuc, Janet Maguire, Anthony Davenport, Univ of Cambridge, Cambridge, United Kingdom

P625 Non-coding Rna Regulation of Gene Expression In Angiotensin Ii-induced Vascular Damage
Kugeng Huo, Tili Barhoumi, Jülio C. Fraulob-Aquino, Lady Davis Inst of the Jewish General Hosp, Montreal, QC, Canada; Chantal Richer, Mathieu Lajoie, Daniel Sinnett, Div of Hematology-Oncology, Res Ctr, CHU Ste-Justine, Montreal, QC, Canada; Pierre Paradis, Ernesto L. Schifffrin, Lady Davis Inst of the Jewish General Hosp, Montreal, QC, Canada

P626 Amine Oxidase Activity in Mesenteric Perivascular Adipose Tissue Adipocytes is Mediated by Semicarbazide Sensitive Amine Oxidase
Nadia Ayala-Lopez, Janice M. Thompson, Stephanie W. Watts, Michigan State Univ, East Lansing, MI
P627  The β3 Adrenergic Receptor is Partially Responsible for Anti-contractile Effect of Perivascular Adipose Tissue in Rat Mesenteric Resistance Arteries
Theodora Szasz, Georgia Regents Univ, Augusta, GA; Takayuki Matsumoto, Hoshi Univ, Tokyo, Japan; Camilla F. Wencelslau, R. Clinton Webb, Georgia Regents Univ, Augusta, GA

Angiotensin Action and Signaling/Renin Angiotensin System 2
Poster Chairs:
L Gabriel Navar, PhD, FAHA, Tulane University School of Medicine, New Orleans, Louisiana
TBD

P201  Divergent Angiotensin Receptor Signaling in a Mouse Model of Post-Traumatic Stress Disorder (PTSD)
Adam Swierzcz, Cassandra Moshfegh, Amishi Desai, Lauren Hopkins, Paul J. Marvar, George Washington Univ, Washington, DC, DC

P202  Angiotensin Receptor-binding Protein ATRAP as a Possible Candidate for Therapeutic Strategy of Functionally Selective Modulation of Angiotensin Receptor Signaling
Kouichi Tamura, Hiromichi Wakui, Kengo Azushima, Kazushi Uneda, Ryu Kobayashi, Kohji Ohki, Sona Haku, Kotaro Haruhara, Sho Kinguchi, Masato Ohsawa, Akinobu Maeda, Tomohiko Kanaoka, Satoshi Umemura, Dept of Medical Sci and Cardiorenal Med, Yokohama City Univ Sch of Med, Yokohama, Japan

P203  ICV Angiotensin-(1-7) Decreased TNF-α and Increased IL-10 in the Hypothalamus of (mRen2)27 Transgenic Hypertensive Rats
Lucas M. Kangussu, Marilene L. Oliveira, Robson A. S. Santos, Federal Univ of Minas Gerais, Belo Horizonte, Brazil; Maria J. Campagnole-Santos, Dept of Physiology and Biophysics, Federal Univ of Minas Gerais, Belo Horizonte, Brazil

P204  Food Restriction Increases the Cardiovascular Response Evoked by Angiotensin-[1-10] and Angiotensin-[1-7] in Female Fischer Rats
Aline M. Souza, Georgetown Univ, Washington, DC; Talita A. Martins, Laura G. Santo, Deoclecio A. Chianca Jr, Univ Federal de Ouro Preto, Ouro Preto, Brazil; Kathyn Sandberg, Georgetown Univ, Washington, DC; Rodrigo C Menezes, Univ Federal de Ouro Preto, Ouro Preto, Brazil

P205  Angiotensin II Metabolic Pathways in Isoproterenol-Induced Heart Failure: Myocytes vs Non-myocytes
Sarfaraz Ahmad, Tiankai Li, Xiaowei Zhang, Jasmina Varagic, Leanne Groban, Wake Forest Univ, Sch. of Med, Winston-Salem, NC; Dell’Italia J. Louis, Univ of Alabama at Birmingham, Birmingham, AL; Che Ping Cheng, Carlos M. Ferrario, Wake Forest Univ, Sch. of Med, Winston-Salem, NC

P206  Structural Analysis of Glycosyl Chain at 14th Amino Acid Of Human Angiotensinogen in Plasma
Sayaka Nagata, Mariko Tokashiki, Kazuo Kitamura, Univ of Miyazaki, Miyazaki, Japan

P207  Role of (Pro)Renin Receptor in the Pathogenesis of Colon Cancer
Akira Nishiyama, Jupei Wang, Kagawa Univ Medical Sch, Kagawa, Japan; Shinichi Yachida, Natl Cancer Ctr Res Inst, Tokyo, Japan; Genevieve Nguyen, Takuo Hirose, Inst Natl de la Santé et de la Recherche Médicale (INSEPM), Paris, France; Yuki Shibayama, Kagawa Univ Medical Sch, Kagawa, Japan

P208  Effect of Rosiglitazone on Renal Nephrin Expression and Protein Expression in Dp/db Diabetic Mice
Laale Alawi, Sana Emberg, Khalid Elased, Wright State Univ, Dayton, OH

P209  RAS-Equilibrium Analysis: Simplified Biochemical Characterization of the Renin-angiotensin-system and Implications for Diagnosis and Treatment of Hypertension
Marko Poglitsch, Cornelia Schwager, Dunja van Oyen, Claudia Aigner, Oliver Domenig, Attoquant Diagnostics, Vienna, Austria

P628  Angiotensin 1-7 Mas Receptor and Dopamine D1 receptor Interaction as a Novel Natriuretic Mechanism in Rat Kidneys
Andrea C. Diaz Diaz, Mustafa F. Lokhandwala, Faraz Jafri, Anees A. Banday, Heart and Kidney Inst, Coll of Pharmacy, Univ of Houston, Houston, TX

P629  Effect of Circulating ACE2 Activity on plasma Angiotensin Peptides
Jan Wysocki, Minghao Ye, Ahmed M. Khattab, Peter D. Serfozo, Northwestern Univ, Chicago, IL; Mark Osborn, Univ of Minnesota, Minneapolis, MN; Daniel Battle, Northwestern Univ, Chicago, IL

P630  Captopril Reduces Cytopathic Effects in Herpes Simplex Virus 1 (HSV-1) Infected SH-SY5Y Cells
Amina Wofford, Justin Merritt, Tuskegee Univ, Tuskegee Institute, AL; Cynthia Ann Jackson, Alabama A&M Univ, Normal, AL; Chastity N. Bradford, Gerald Griffin, Tuskegee Univ, Tuskegee Institute, AL

P646  Vascular AT1 Angiotensin Receptors Regulate Sodium Transporter Abundance in Kidney Epithelium
Matthew A. Sparks, Duke Univ, Durham, NC; Donna L. Ralph, Univ of Southern California, Los Angeles, CA; Daian Chen, Hooman A. Azad, Susan B. Gurley, Duke Univ, Durham, NC; Alicia A. McDonough, Univ of Southern California, Los Angeles, CA; Thomas M. Coffman, Duke Univ, Durham, NC
Aldosterone, Its Receptors and Other Hormones

Poster Chair:
Christian Delles, MD, FRCP, University of Glasgow, Glasgow, UK

P210 Association of Perceived Stress and Aldosterone and Adiponectin Levels in a Rural Cohort of African Americans
Mildred A. Pointer, Jesus Sanchez, Kianda Hicks, Candace Wells, Lakeesha Bridges, David Bolin, Natasha Greene, North Carolina Central Univ, Durham, NC

P211 Normo-aldosteronemic Aldosterone-producing Adenoma: Immunochemical Characterization and Diagnostic Implications
Gian Paolo Rossi, Francesca Gioco, Ambrogio Fassina, Univ of Padua, Padua, Italy; Celso E. Gomez-Sanchez, Univ of Mississippi Medical Ctr, Jackson, MS

P212 A Meta Analysis of Somatic KCNJ5 Mutations in 1636 Primary Aldosteronism Patients
Gian Paolo Rossi, Livia Lenzini, Giacomo Rossitto, Giuseppe Maiolino, Univ Hosp, Padua, Italy; Claudio Letizia, Univ of Rome Sapienza, Rome, Italy; John Funder, The Hudson Medical Res Inst, Clayton, Australia

P213 Western Diet May Modulate Kidney Injury and Albuminuria Differentially in Female Mice Deficient in Mr in the Endothelium versus the Smooth Muscle
Ravi Nistala, Ruth Simpson, Javad Habibi, Annayya Aroor, Mona Garro, Vincent DeMarco, Malvinder S. Woo, James Sowers, Univ of Missouri, Columbia, MO

P214 Meta-analysis of the Effect of Mineralocorticoid Receptor Antagonists on Proteinuria and Progression of Chronic Kidney Disease
Gemma E. Currie, Alison H. Taylor, Alan G. Jardine, David J. Preiss, Patrick B. Mark, Christian Delles, Univ of Glasgow, Glasgow, United Kingdom

P215 Angiotensin II-Mediated Cardiac Remodeling in cChAT Mice
Helio C. Salgado Sr., Geisa C. Tezini, Sch of Med of Ribeirão Preto, Ribeirão Preto, Brazil; Ashbeel Roy, Vania F. Prado, Robert Gros, Marco A. Prado, Robarts Res Inst, London, ON, Canada

P216 Thoracic Epidural Administration of Resiniferatoxin Improves Cardiac and Autonomic Dysfunction in Post-MI Rats
Hanjun Wang Jr., Irving H. Zucker, Univ of Nebraska Medical Ctr, Omaha, NE

P217 Western Diet Promotes Cardiac Diastolic Dysfunction by Increasing Cardiomyocytes Calcium Sensing Receptor via Activation of Parathyroid Hormone, Parathyroid Related Hormone and Their Receptor-1 in Female Mice
Javad Habibi, Guanghong Jia, Annayya Aroor, Vincent DeMarco, Mona Garro, Brittany Dodd, Brett Niles, James Sowers, Univ of Missouri, Columbia, MO

P218 Role of Metabolic Biomarkers in Early Detection of Diabetic Cardiomyopathy in West Virginian Population
Morgan Getty, Ellen Thompson, Christopher I. Jones, Paul I. Okhumole, Komal Sodhi, Marshall Univ, Joan C. Edwards Sch of Med, Huntington, WV

P219 Differences in Phosphoproteins in Rodent versus Human Hearts: Implications for Translational Studies of Hypertensive Heart Disease
Robert S. Dzau, Kumar Kollo, Univ of Illinois at Chicago, Chicago, IL; Allen Samarel, Loyola Univ Chicago, Chicago, IL; Hua Chen, Univ of Illinois at Chicago, Chicago, IL; Jared Aldstadt, Univ of Buffalo, Buffalo, NY

P220 Congestive Heart Failure in the Rat Induces Subtle Renal Damage via Neurogenic Pathways
Tilmann Ditting, Peter Linz, Martin Hindermann, Kristina Rodionova, Sonja Heinlein, Christian Ott, Roland E. Schmieder, Karl F. Higers, Kerstin Amann, Roland Veelken, Univ of Erlangen-Nuremberg, Erlangen, Germany

P631 Cholesterol Is Required To Maintain T-tubule Integrity And Intercellular Connections At Interconnected Discs In Cardiomyocytes
Yanqi Zhu, Shanghai General Hosp, Shanghai, China; Carine Zhang, Div of Cardiovascular Med, Dept of Internal Med & Franciès M. Abboud Cardiovascular Res Ctr, Univ of Iowa Carver Coll of Med, Iowa city, IA; Rong Chen, Shanghai General Hosp, Shanghai, China; Biji Chen, Ang Guo, Div of Cardiovascular Med, Dept of Internal Med & Franciès M. Abboud Cardiovascular Res Ctr, Univ of Iowa Carver Coll of Med, Iowa city, IA; Jiang Hong, Shanghai General Hosp, Shanghai, China; Longsheng Song, Div of Cardiovascular Med, Dept of Internal Med & Franciès M. Abboud Cardiovascular Res Ctr, Univ of Iowa Carver Coll of Med, Iowa city, IA;
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### Clinical/Blood Pressure/Therapeutic/Other 2

**Poster Chairs:**
Fernando Elijovich, MD, FAHA, Vanderbilt University School of Medicine, Nashville Tennessee  
TBD

**P221** Physicians are More Prone to Causing White Coat Hypertension than Nurses or Cardiovascular Technicians: An Observational Study  
Arjun K. Pandey, Cambridge Cardiac Care Ctr, Cambridge, ON, Canada

**P222** Venous Dilation Contributes to 5-HT-induced Hypotension  
Bridget Mahon Seitz, Teresa Krieger-Burke, Stephanie W Watts, Michigan State Univ, East Lansing, MI

**P223** How Does Patient Engagement and Gamification Correlate With Hypertension Control? Results From a Large-Scale Nationwide Network of Ambulatory Blood Pressure Kiosks  
Khan Siddiqui, Johns Hopkins Univ, Baltimore, MD; Ross Goglia, Higi SH, LLC, Chicago, IL

**P224** Zamicastat Prevents the Deterioration of Cardiometabolic and Inflammatory Biomarkers in a Genetic Model of Salt-sensitive Hypertension  
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John Hall, PhD, FAHA, University of Mississippi Medical Center, Jackson Mississippi
Allyn Mark, MD, FAHA University Iowa, Iowa City, Iowa

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Richard Roman, PhD, University of Mississippi Medical Center, Jackson Mississippi
John Osborn, PhD, University of Minnesota, Minneapolis, Minnesota

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<td>Recent Advances in</td>
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<td>Hypertension:</td>
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<td></td>
<td>Immune Mechanisms</td>
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<tr>
<td>6:00 pm</td>
<td>Poster Session I</td>
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<td>Trainee Oral</td>
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<td>Competition with</td>
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<td>Reception</td>
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<tr>
<td>6:30 pm</td>
<td>Trainee Advocacy Mixer</td>
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**Legend**

- **Ooral Session**
- **How-To Session**
- **Poster Session**
- **Ticketed Event**
- **Breaks**

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