



COUNCIL ON
Hypertension
20**15**

Hypertension 2015

Scientific Sessions

Final Program

September 16–19, 2015 | Omni Shoreham | Washington, DC

Sponsored by the Council on Hypertension and the Council on Kidney in Cardiovascular Disease.

Program at a Glance

	Wednesday, September 16	Thursday, September 17	Friday, September 18	Saturday, September 19
7:00 AM		How-to Session I How to Do Computational Modeling How-to Session II How to Accurately Measure Cardiac Function	How-to Session III How to Build your Research Profile: Lessons in Publishing and Funding	
8:00 AM	Session I Opening Remarks and Keynote Lecture presented by Dr. Gary Gibbons, Director, NHLBI	Oral Session IX Concurrent A Inflammation, Immunity and Cytokines I Concurrent B Obesity and Metabolic Syndrome Concurrent C Renin Angiotensin System I	Oral Session XIV 8:00–8:30 AM Donald Seldin Lecture 8:30–10:00 AM Concurrent A The Kidney and Hypertension I Concurrent B Vascular Biology I Concurrent C Inflammation, Immunity and Cytokines II	Oral Session XVIII 8:00–8:30 AM Dahl Award Lecture 8:30–10:00 AM Concurrent A Vascular Biology II Concurrent B Kidney and Hypertension II Concurrent C Oxidative Stress II
9:00 AM	Session II Recent Advances in Hypertension: Nervous System			
10:00 AM	Refreshments and Exhibits	Refreshments and Exhibits	Refreshments and Exhibits	Refreshments and Exhibits
10:30 AM	Session III Recent Advances in Hypertension: Genetics and Epigenetics	Oral Session X Concurrent A Microbiota and Hypertension Concurrent B Neurogenic Mechanisms Concurrent C Pregnancy and Preeclampsia I	Oral Session XV 10:30–11:00 AM Harriet Dustan Award Lecture 11:00 AM–12:30 PM Concurrent A Renin Angiotensin System II Concurrent B Obesity and Diabetes Concurrent C Clinical Hypertension	Oral Session XIX Concurrent A Preeclampsia and Developmental Programming of Hypertension Concurrent B Aldosterone, Its Receptors and Other Hormones Concurrent C Salt and Hypertension II
11:30 AM	Boxed Lunch (Conference-wide)			
12:00 AM	TAC Mentoring Luncheon (by Invitation Only)	Lunch on your own		Meeting Adjourns
12:30 PM	Session IV Recent Advances in Hypertension: Endothelial Factors	Poster Session II	Annual Business Meeting and Awards Luncheon <i>*Ticketed event)</i>	Legend  Oral Session  How-To Sessions  Poster Session  Ticketed Event  Breaks
1:00 PM				
1:30 PM	Session V Recent Advances in Hypertension: Clinical Hypertension		Poster Session III	
2:00 PM				
2:30 PM	Session VI Recent Advances in Hypertension: Gender and Cardiovascular Diseases	Oral Session XI Arthur C. Corcoran Memorial Lecture		
3:00 PM		Refreshments and Exhibits		
3:30 PM	Refreshments and Exhibits	Oral Session XII Concurrent A Genetics and Epigenetics Concurrent B Top Trainee Oral Abstracts	Oral Session XVI Concurrent A Oxidative Stress I Concurrent B Salt and Hypertension I	
4:00 PM	Session VII Recent Advances in Hypertension: Developmental Programming of Cardiovascular Diseases			
5:00 PM	Session VIII Recent Advances in Hypertension: Immune Mechanisms	XIII Awards Session Lifetime Achievement Awardee Mid-Career Award Winner Harry Goldblatt Award Winner Australian Council Young Investigator British Hypertension Society Young Investigator	Refreshments and Exhibits	
5:15 PM			Session XVII The Excellence Award for Hypertension Research	
6:00 PM	Poster Session I Trainee Onsite Poster Competition with Reception			
6:30 PM				
7:00 PM		Trainee Advocacy Mixer		
7:30 PM			7:30–8:00 PM Excellence Award for Hypertension Research Reception	
8:00 PM			8:00–10:00 PM Excellence Award for Hypertension Research Dinner <i>*Ticketed event</i>	
9:00 PM				

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,



A stylized, handwritten signature in black ink that reads "Joey P. Granger".

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

Table of Contents

Abstract Graders	3
Author Index	58
Conference Awards	13
Conference Highlights	8
Hotel Map	6
Policy Information	15
Poster Presentations	33
Program Committee	2
Program Information	16
Wednesday, September 16	16
Thursday, September 17	17
Friday, September 18	23
Saturday September 19.....	29
Room Locator	5
Speaker Resource Room	14
Supporters	2

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

Professional Membership Customer Service

Lippincott, Williams & Wilkins
Telephone (800) 787-8984 (inside the United States)
Fax (301) 223-2327 (outside the United States)
Email ahaonline@lww.com

*The American Heart Association is a national voluntary health organization whose mission is:
"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

David Ellison, MD, FAHA, Vice Chair, Hypertension Program Committee, Oregon Health & Science University,
Portland, Oregon

Daniel Battle, MD, FAHA, Northwestern University, Feinberg School of Medicine, Chicago, Illinois

Ana Briones, PhD, Universidad Autónoma de Madrid, Madrid, Spain

Satoru Eguchi, MD, PhD, FAHA, Temple University School of Medicine, Philadelphia, Pennsylvania

Gregory Fink, PhD, FAHA, Michigan State University, East Lansing, Michigan

John M. Flack, MD, MPH, FAHA, FACP, Wayne State University School Medicine, Detroit, Michigan

R. Ariel Gomez, MD, University of Virginia School of Medicine, Charlottesville, Virginia

Bina Joe, MD, University Toledo, Toledo, Ohio

Donald E. Kohan, MD, PhD, University of Utah Health Sciences Center, Salt Lake City, Utah

Moshe Levi, MD, Chair, Kidney Council, University of Colorado Denver, Aurora, Colorado

Augusto Montezano, MD, Institute of Cardiovascular and Medical Sciences, Glasgow, Scotland

Dominik Mueller, PhD, Max-Delbruck Center and Clinical Experimental Research Center, Berlin, Germany

Ravi Nistala, MD, University of Missouri-Columbia, Columbia, Missouri

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

Patrick 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 Sumners, 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.

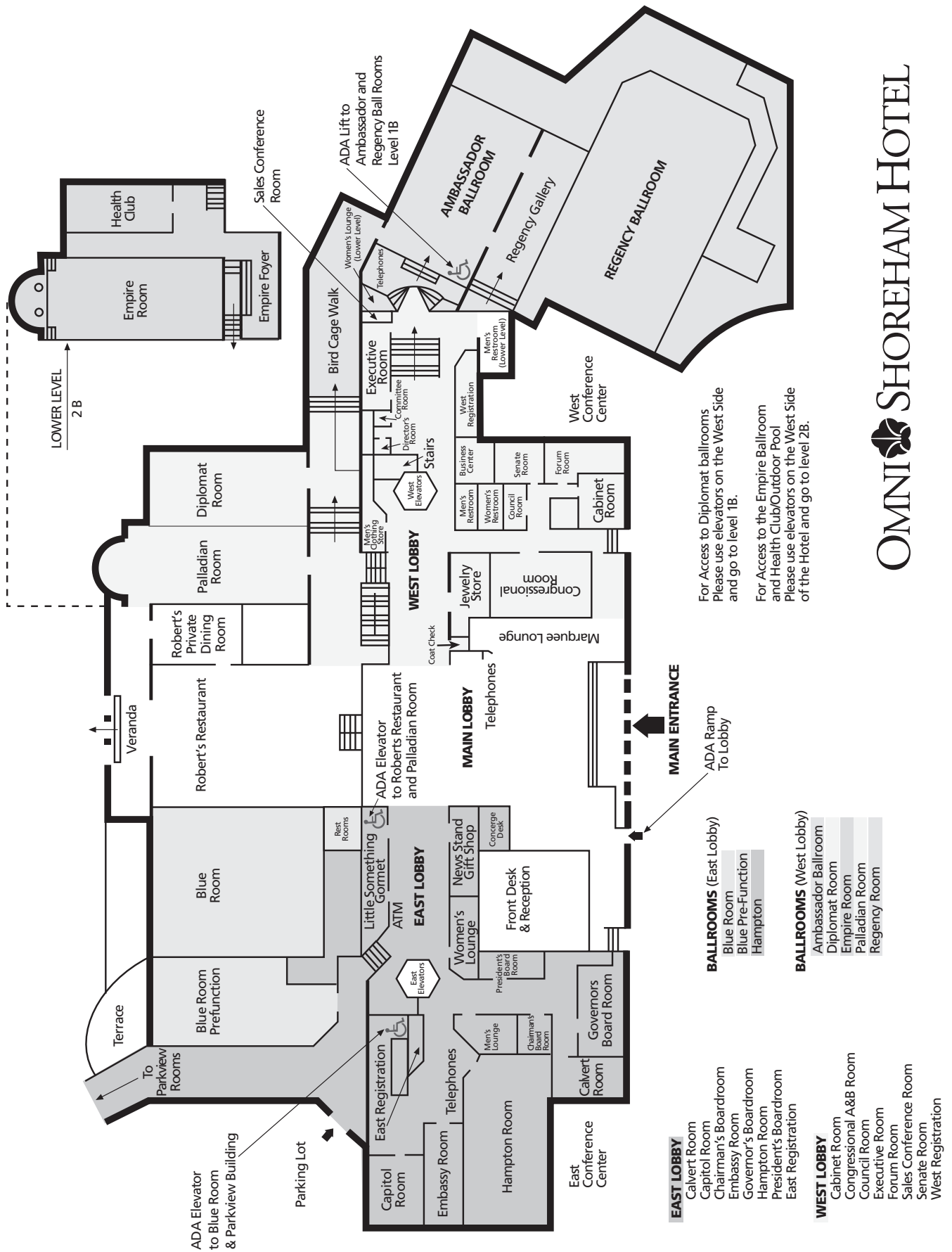
Barbara Alexander	L. Lee Hamm	Mohan Raizada
William J. Arendshorst	Diane E. Handy	Richard N. Re
Michael Bader	Pamela Harding	Jane Reckelhoff
Paula Barrett	Stephen B. Harrap	Richard J. Roman
Daniel Battle	Raymond C. Harris	Luis Ruilope
Kathleen H. Berecek	Lisa Harrison-Bernard	Michael Ryan
Anil K. Bidani	Yoshitaka Hirooka	Helio C. Salgado
Bina Joe	John D. Imig	Kathryn Sandberg
Henry Black	Raouf A. Khalil	Paul W. Sanders
Ana M. Briones	Donald Kohan	Jennifer Sasser
K. Bridget Brosnihan	Jose Krieger	Ernesto Schiffrin
Nancy J. Brown	Theodore Kurtz	Tatsuo Shimosawa
David A. Calhoun	Babbette LaMarca	Curt D. Sigmund
Robert Carey	Eric Lazartigues	Helmy M. Siragy
Dulce Casarini	Frans Leenen	James Sowers
Lisa A. Cassis	Scott Levick	Joshua Speed
Alejandro Chade	Ruisheng Liu	David Stec
Mark Chappell	Thomas E. Lohmeier	Jan Staessen
Fernanda Colombo	Analia S. Loria	Johannes Stegbauer
Steven Crowley	James M. Luther	Sean D. Stocker
J. Thomas Cunningham	Dewan S. Majid	Jennifer C. Sullivan
A. Danser	Franco Mantero	Colin Sumners
Katia De Angelis	David L. Mattson	Zhongjie Sun
Ralf Dechend	Mariela Mendez	Stefano Taddei
Donald DiPette	Francis J. Miller	Ann Tallant
Debra Diz	Kenneth D. Mitchell	Stephen C. Textor
Anna Dominiczak	Michael A. Moore	Rhian Touyz
Satoru Eguchi	Heitor Moreno	Raymond Townsend
Khalid Elased	Dominik N. Muller	Paolo Verdecchia
Fernando Elijevich	Alberto Nasjetti	Massimo Volpe
Ross Feldman	Genevieve Nguyen	Richard D. Wainford
Nicholas R. Ferreri	Akira Nishiyama	Donna Wang
Gregory D. Fink	Edilamar L. Oliveira	Stephanie W. Watts
Toshiro Fujita	Pablo A. Ortiz	R. Clinton Webb
John W. Funder	John W. Osborn	Michael A. Weber
Michael Garrett	Suresh Palaniyandi	Myron H. Weinberger
Kathryn M. Gauthier	Joon Park	Mathew Weir
Eric George	Janos Peti-Peterdi	William J. Welch
Celso Gomez-Sanchez	Jennifer Pollock	Ulrich Wenzel
Ming C. Gong	David M. Pollock	Adam T. Whaley-Connell
Laura V. Gonzalez Bosc	Ambra Pozzi	Robert E. Widdop
Romer Gonzalez-Villalobos	J. Howard Pratt	J. Michael Wyss
Joey Granger	Morton P. Printz	Xueying Zhao
Roger Grekin	Kamal Rahmouni	Irving H. Zucker

Room Locator

Tuesday, September 15		
2:00–7:00 PM	Registration	West Registration Desk
3:00–7:00 PM	Speaker Resource Room	Committee Room
Wednesday, September 16		
7:00 AM–7:00 PM	Registration	West Registration Desk
7:00 AM–6:00 PM	Speaker Resource Room	Committee Room
7:00 AM–3:30 PM	Exhibits	Ambassador Ballroom
8:00–9:00 AM	Session I: Opening Remarks and Keynote Lecture	Regency Ballroom
9:00–10:00 AM	Session II: Recent Advances in Hypertension: Nervous System	Regency Ballroom
10:00–10:30 AM	Refreshments and Exhibits	Ambassador Ballroom
10:30–11:30 AM	Session III: Recent Advances in Hypertension: Genetics and Epigenetics	Regency Ballroom
11:30 AM–12:30 PM	Lunch Break (boxed lunches)	Ambassador Ballroom
12:00–1:30 PM	TAC Mentoring Luncheon	Executive Room
12:30–1:30 PM	Session IV: Recent Advances in Hypertension: Endothelial Factors	Regency Ballroom
1:30–2:30 PM	Session V: Recent Advances in Hypertension: Clinical Hypertension	Regency Ballroom
2:30–3:30 PM	Session VI: Recent Advances in Hypertension: Gender and Cardiovascular Diseases	Regency Ballroom
3:30–4:00 PM	Refreshments and Exhibits	Ambassador Ballroom
4:00–5:00 PM	Session VII: Recent Advances in Hypertension: Developmental Programming of Cardiovascular Diseases	Regency Ballroom
5:00–6:00 PM	Session VIII: Recent Advances in Hypertension: Immune Mechanisms	Regency Ballroom
6:00–9:00 PM	Poster Session I (for Trainees) with Reception	Regency Ballroom
Thursday, September 17		
7:00 AM–7:00 PM	Registration	West Registration Desk
7:00 AM–6:00 PM	Speaker Resource Room	Committee Room
7:00 AM–3:30 PM	Exhibits	Ambassador Ballroom
7:00–8:00 AM	How-to Session I: How to do Computational Modeling	Diplomat Ballroom
7:00–8:00 AM	How-to Session II: How to Accurately Measure Cardiac Function	Regency Ballroom
	Oral Session IX	
8:00–10:00 AM	Concurrent A: Inflammation, Immunity and Cytokines I	Regency Ballroom
8:00–10:00 AM	Concurrent B: Obesity and Metabolic Syndrome	Diplomat Ballroom
8:00–10:00 AM	Concurrent C: Renin Angiotensin System I	Empire Ballroom
10:00–10:30 AM	Refreshments and Exhibits	Ambassador Ballroom
	Oral Session X	
10:30 AM–12:00 PM	Concurrent A: Microbiota and Hypertension	Regency Ballroom
10:30 AM–12:00 PM	Concurrent B: Neurogenic Mechanisms	Diplomat Ballroom
10:30 AM–12:00 PM	Concurrent C: Pregnancy and Preeclampsia I	Empire Ballroom
12:00 PM–1:00 PM	Lunch on your own	
1:00–2:30 PM	Poster Session II	Regency Ballroom
2:30–3:00 PM	Oral Session XI: Arthur C. Corcoran Memorial Lecture	Regency Ballroom
3:00–3:30 PM	Refreshments and Exhibits	Ambassador Ballroom
	Oral Session XII	
3:30–5:00 PM	Concurrent A: Genetics and Epigenetics	Regency Ballroom
3:30–5:00 PM	Concurrent B: Top Trainee Oral Abstracts	Diplomat Ballroom

Room Locator (continued)

	XIII Awards Session	
5:00–5:20 PM	Irvine Page-Alva Bradley Lifetime Achievement Award Presentation	<i>Regency Ballroom</i>
5:20–5:40 PM	Mid-Career Award winner	<i>Regency Ballroom</i>
5:40–5:55 PM	Harry Goldblatt Award winner	<i>Regency Ballroom</i>
5:55–6:10 PM	Australian Council Young Investigator	<i>Regency Ballroom</i>
6:10–6:30 PM	British Hypertension Society Young Investigator	<i>Regency Ballroom</i>
7:00–11:00 PM	Trainee Advocacy Mixer	<i>Palladian Ballroom</i>
Friday, September 18		
7:00 AM–7:00 PM	Registration	<i>West Registration Desk</i>
7:00 AM–6:00 PM	Speaker Resource Room	<i>Committee Room</i>
7:00 AM–5:30 PM	Exhibits	<i>Ambassador Ballroom</i>
7:00–8:00 AM	How-To Session III How to Build your Research Profile	<i>Regency Ballroom</i>
	Oral Session XIV	
8:00–8:30 AM	Donald Seldin Lecture	<i>Regency Ballroom</i>
8:30–10:00 AM	Concurrent A: The Kidney and Hypertension I	<i>Regency Ballroom</i>
8:30–10:00 AM	Concurrent B: Vascular Biology I	<i>Diplomat Ballroom</i>
8:30–10:00 AM	Concurrent C: Inflammation, Immunity and Cytokines II	<i>Empire Ballroom</i>
10:00–10:30 AM	Refreshments and Exhibits	<i>Ambassador Ballroom</i>
	Oral Session XV	
10:30–11:00 AM	Harriet Dustan Award Lecture	<i>Regency Ballroom</i>
11:00 AM–12:30 PM	Concurrent A: Renin Angiotensin System II	<i>Regency Ballroom</i>
11:00 AM–12:30 PM	Concurrent B: Obesity and Diabetes	<i>Diplomat Ballroom</i>
11:00 AM–12:30 PM	Concurrent C: Clinical Hypertension	<i>Empire Ballroom</i>
12:30–2:00 PM	Awards and Annual Business Meeting Luncheon	<i>Palladian Ballroom</i>
2:00–3:30 PM	Poster Session III	<i>Regency Ballroom</i>
	Oral Session XVI	
3:30–5:00 PM	Concurrent A: Oxidative Stress I	<i>Regency Ballroom</i>
3:30–5:00 PM	Concurrent B: Salt and Hypertension I	<i>Diplomat Ballroom</i>
5:00–5:15 PM	Refreshments and Exhibits	<i>Ambassador Ballroom</i>
5:15–6:00 PM	Session XVII: The Excellence Award in Hypertension Research	<i>Regency Ballroom</i>
7:30–8:00 PM	Reception for Excellence Award in Hypertension Research	<i>Blue Room Terrace</i>
8:00–10:00 PM	Dinner for Excellence Award in Hypertension Research	<i>Blue Room</i>
Saturday, September 19		
7:00 AM–12:00 PM	Registration	<i>West Registration Desk</i>
7:00–11:30 AM	Speaker Resource Room	<i>Committee Room</i>
	Oral Session XVIII	
8:00–8:30 AM	Dahl Award Lecture	<i>Regency Ballroom</i>
8:30–10:00 AM	Concurrent A: Vascular Biology II	<i>Regency Ballroom</i>
8:30–10:00 AM	Concurrent B: Kidney and Hypertension II	<i>Diplomat Ballroom</i>
8:30–10:00 AM	Concurrent C: Oxidative Stress II	<i>Empire Ballroom</i>
10:00–10:30 AM	Refreshments	<i>Ambassador Ballroom</i>
	Oral Session XIX	
10:30 AM–12:00 PM	Concurrent A: Preeclampsia and Developmental Programming of Hypertension	<i>Regency Ballroom</i>
10:30 AM–12:00 PM	Concurrent B: Aldosterone, Its Receptors and Other Hormones	<i>Diplomat Ballroom</i>
10:30 AM–12:00 PM	Concurrent C: Salt and Hypertension II	<i>Empire Ballroom</i>



Program Information

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.




Hypertension

An American Heart Association Journal

The best high blood pressure-related articles, focused on basic science, clinical treatment, and prevention of hypertension and related cardiovascular, metabolic, and renal diseases.



EDITOR-IN-CHIEF
Anna F. Dominiczak,
OBE, MD, FRCP, FRSE, FAHA, FMedSci

Submit Your Manuscript

<http://hype-submit.aha-journals.org>

Publishing Metrics

Learn how *Hypertension* impacts the caliber of scientific publishing at
<http://www.ahajournals.org/site/metrics>



hyper.ahajournals.org

A subscription to *Hypertension* includes access online and on your iPad®.

Apple and iPad are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.



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

Program Information (continued)

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 Titzell 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.

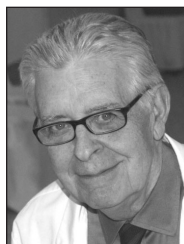
The Lifetime Achievement Award is presented each year to an individual who has had a lifetime of outstanding achievements in the field of hypertension and has served as a role model through service, research and teaching. Recipients have generally had a career spanning at least 25 years. We are pleased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

Program Information (continued)

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.



WILEY

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

Program Information (continued)

Abstract Awards

Annual Council on Hypertension Conference New Investigator Award

Sponsored by the Council on Hypertension

Name	Abstract/Presentation Number	Day/Time
Larry Agbor, PhD	065	September 18, 8:30 AM
Imad Al Ghouleh, PhD	096	September 18, 3:45 PM
Saeed Alshahrani, MS	115	September 19, 9:00 AM
Lorena Amaral, PhD	076	September 18, 9:45 AM
Christopher Chan	074	September 18, 9:15 AM
Denise Cornelius, PhD	037	September 17, 10:30 AM
Louise Evans, MSc, PhD	103	September 18, 4:15 PM
Ankita Bachhawat Jaykumar, MSc	104	September 18, 4:15 PM
Sarah Mueller	066	September 18 8:45 AM
Masashi Mukohda, PhD	001	September 17, 8:00 AM
Allison Norlander	140	September 19, 11:15 AM
Keisuke Shinohara, PhD	P061	September 16, 6:00 PM

Council on Hypertension New Investigator Award

Supported by the Council on Hypertension Trainee Advocacy Committee

Name	Abstract/Presentation Number	Day/Time
Isha Dhande, PhD	P012	September 16, 6:00 PM
Jorge Giani, PhD	019	September 17, 8:30 AM
Luciana Veiras, PhD (Student)	114	September 19, 8:45 AM
Tao Yang, MS	029	September 17, 11:30 AM

Kidney Council New Investigator Award

Supported by the Council on Kidney in Cardiovascular Disease

Name	Abstract/Presentation Number	Day/Time
Krishna Boini, PhD	P017	September 16, 6:00 PM
Pei-Lun Chu, MD, PhD	102	September 18, 3:45 PM
Fan Fan, MD	MP14	September 18, 2:00 PM
Joseph Gigliotti, PhD	004	September 17, 8:45 AM
Suttira Intapad, PhD	130	September 19, 11:45 AM
Yoshitsugu Iwakura	135	September 19, 11:30 AM
Keyona King-Medina, PA-C	142	September 19, 11:45 AM
Analia Loria, PhD	111	September 19, 9:30 AM
Oleg Palygin, PhD	113	September 19, 8:30 AM
Nirupama Ramkumar, MD MPH	021	September 17, 9:00 AM

Top Trainee Oral Abstracts

Hypertension Early Career Award Competition

Name	Abstract/Presentation Number	Day/Time
Ellen Gillis, MS	49	September 17, 3:30 PM
Jordan Kho	50	September 17, 3:45 PM
Hana Itani, PhD	51	September 17, 4:00 PM
Marc Mazzuca, PhD	52	September 17, 4:15 PM
Balyssa Bell	53	September 17, 4:30 PM
Maria Pitra	54	September 17, 4:45 PM

Top Papers Published in Hypertension 2014

Basic	Clinical
Henry Daniell, Mohan Raizada	Louise Kenny
Juliette Hadchouel, Gerardo Gamba	
	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 American Stroke Association reserve the rights to all recordings or reproductions of presentations at AHA/ASA scientific conferences and meetings. Check the program for information about the availability of videotapes or audiotapes for purchase. Exceptions to this policy prohibition are:

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

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

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 Veerabhadrapa, 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

Program Agenda (continued)

THURSDAY

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 PPAR γ Ligand Binding Domain Impairs the Anti-inflammatory Action of PPAR γ**
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 AngiotensinII, 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

- 9:30 **Interleukin-6 Inhibition Attenuates Hypertension and Associated Renal Damage in Dahl Salt-sensitive (SS) Rats**
Shireen Hashmat, Medical Coll of Wisconsin, Milwaukee, WI; Nathan Rudemiller, Duke Univ, Durham, NC; Justine Abais, Hayley Lund, Galina Petrova, Scott Van Why, David L Mattson, Medical Coll of Wisconsin, Milwaukee, Wisconsin
- 9:45 **Early Life Stress Induces Renal Pro-inflammatory Immune Responses**
Carmen De Miguel, Dao H. Ho, Univ of Alabama at Birmingham, Birmingham, AL; Analia S. Loria, Univ of Kentucky, Lexington, KY; Ijeoma Obi, Jennifer S. Pollock, Univ of Alabama at Birmingham, Birmingham, AL

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**
Anne K. McGavigan, Darline Garibay, Scott D. Butler, Robin L. Davisson, **Bethany P. Cummings**, Cornell Univ, Ithaca, New York
- 8:15 **The Role of Angiotensin AT1A Receptors in Leptin-sensitive Cells in Resting Metabolic Rate Control**
Kristin E. Claffin, 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 Maua, 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)

9:00	Early Life Stress Increases Susceptibility to Develop Obesity and Metabolic Syndrome in a Sex-specific Manner Margaret Murphy , Lauren Schmuckie, David Powell, Francesc Marti, Analia Loria, Univ of Kentucky, Lexington, Kentucky	13	Carlos H. Castro, Inst of Biological Sciences, Minas Gerais, Brazil.; Minas Gerais, Brazil; George S. Baillie, Margaret R. MacLean, Rhian M. Touyz, Inst of Cardiovascular and Medical Sciences, Glasgow, United Kingdom
9:15	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	14	8:15 Sox6 is a Critical Factor in Renin Cell Fate in Development and Pathology Jose Gomez , Duke Univ, Durham, North Carolina
9:30	Increased 20-HETE Levels Contribute to Impaired Glucose Metabolism and Type 2 Diabetes in Cyp4a14 Knockout Mice Fed on High Fat Diet Varunkumar G. Pandey , Lars Bellner, Victor Garcia, Joseph Schragenheim, Andrew Cohen, New York Medical Coll, Valhalla, New York; John Falck, UT Southwestern Medical Ctr, Dallas, Texas; Petra Rocic, New York Medical Coll, Valhalla, New York; Jorge Capdevila, Vanderbilt Univ Medical Ctr, Nashville, Tennessee; Nader G. Abraham, Michal Schwartzman, New York Medical Coll, Valhalla, New York	15	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
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 Battle, Northwestern Univ, Chicago, Illinois	16	8:45 A Mitochondrial Renin-Angiotensin System: Internalization of Angiotensinogen Bryan A. Wilson , Nancy T. Pirro, TanYa M. Gwathmey, James C. Rose, Mark C. Chappell, Wake Forest Sch of Med, Winston Salem, North Carolina
8:00 AM Oral Session IX Concurrent C Renin Angiotensin System I <i>Empire Ballroom</i> Moderators: Daniel Battle, MD Northwestern University Feinberg School of Medicine, Chicago, Illinois Sarah Lindsey, PhD, Tulane University School of Medicine, New Orleans, Louisiana			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; Atsuhiko 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
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,	17	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,
			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; Atsuhiko 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,

THURSDAY

Program Agenda (continued)

THURSDAY

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; Atsuhiko 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 Pains, Univ of Brescia, Brescia, Italy; Lidia Sada, Carmine Nicoletti, Raffaella Carletti, Sapienza Univ of Rome, Rome, Italy; Damiano Rizzoni, Maria Lorenza Muesan, Univ of Brescia, Brescia, Italy; Cira Di Giloia, Sapienza Univ of Rome, Rome, Italy; Enrico Agabiti Rosei, Univ of Brescia, Brescia, Italy; Massimo Volpe, 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 Waghulde, 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

24

- 10:45 **Gut Bacteria Metabolite Attenuates Ang II-induced Cardiac Damage**
Nicola Wilck, Hendrik Bartolomaeus, Andras 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, Daijiro 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
Lisete 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. Davisson, Cornell Univ, Ithaca, New York

Program Agenda (continued)

10:45	Microglial TLR4 Mediate Angiotensin II-induced Reactive Oxygen Species Production within the Paraventricular Nucleus in Hypertension Vinicia C. Biancardi , Javier E. Stern, Georgia Regents Univ, Augusta, Georgia	32	10:45	Placental Growth Factor Supplementation Abolishes Placental Ischemia-induced Hypertension Frank T. Spradley , Univ of Mississippi Medical Ctr, Jackson, Mississippi; Adelene 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	38
11:00	Neuronal Knock-out of AT1 Receptor Attenuates the Development of Doca-salt-induced Hypertension Jiaxi Xu , Srinivas Sriramula, Eric Lazartigues, Louisiana State Univ Health Sciences Ctr, New Orleans, Louisiana	33	11:00	Normalization of Uterine Interleukin (IL)-15 in the BPH/5 Preeclamptic Mouse Improves Decidual Natural Killer Cell Activation at the Maternal-Fetal Interface Jenny L. Sones , Christa Heyward, Dominique Lessard, Scott Butler, Heinrich Lob, Robin L. Davisson, Cornell Univ, Ithaca, New York	39
11:15	Opposite Effects of Hypertension and Training on Blood Brain Barrier Integrity in Autonomic Areas of the Spontaneously Hypertensive Rat Lisete C. Michelin , Maria T. Jordao, Alexandre Ceroni, Leila Buttler, Univ of Sao Paulo, Sao Paulo, SP, Brazil	34	11:15	Complement Activation in Placental Ischemia-induced Hypertension is Not Dependent on Endothelin A Receptor Activation Jean F. Regal , Megan E. Strehlke, Barbara J. Elmquist, Jeffrey S. Gilbert, Univ of Minnesota Medical Sch Duluth, Duluth, Minnesota	40
11:30	Differential Sodium-evoked Activation of Pvn Magnocellular vs. Parvocellular Neurons in Rats Lacking Central Gal<SUB>2</SUB> Proteins Contributes to Sustained Elevations in Blood Pressure Casey Y. Carmichael , Richard D. Wainford, Boston Univ Sch of Med, Boston, Massachusetts	35	11:30	Elevated Circulating Copeptin in Mid-Gestation is Associated with Increased Aortic Stiffness and Vascular Endothelial Dysfunction in Pregnant Women at High Risk for Preeclampsia 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	41
11:45	Family History of Hypertension and Sympathetic Neural Reactivity to Mental Stress in Humans Ida T. Fonkoue , Min Wang, Jason R. Carter, Michigan Technological Univ, Houghton, Michigan	36	11:45	Cd74-dysregulation of Macrophage-trophoblastic Interactions in the Preeclamptic Placenta 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	42
10:30 AM Oral Session X Concurrent C Pregnancy and Preeclampsia I <i>Empire Ballroom</i> Moderators: Jennifer Sasser, PhD, University of Mississippi, Jackson, Mississippi Ralf Dechend, MD, Charité - Universitätsmedizin Berlin, Berlin, Germany					
10:30	A Role for IL-17 to Activate Cytolytic Natural Killer Cells in Response to Placental Ischemia Denise C. Cornelius , D'Andrea S. Thomas, Jamil Elfarrar, Taia R. McAfee, Babbette LaMarca, Univ of Mississippi Medical Ctr, Jackson, Mississippi	37			

THURSDAY

Program Agenda (continued)

THURSDAY

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**

Allen 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 **Epigenetic Modification of Brain (pro)renin Receptor Contributes to the Development of Doca-salt Hypertension via Epithelial Sodium Channel** **45**
Wencheng Li, Yumei Feng, Univ of Nevada-Reno, Reno, Nevada

4:15 **Deep Sequencing in mpkCCD Collecting Duct Cells Identifies Transcriptional Response to Vasopressin** **46**
Pablo Sandoval, Jae Wook Lee, J'Neka Claxton, Jason D. Hoffert, Mark A. Knepper, NHLBI, Bethesda, Maryland

4:30 **Genetics and Environmental Influences on Ambulatory Blood Pressure in Rats Compared With Circadian Blood Pressure Variability in Human** **47**
Mary S. Lee, Northwestern Univ Feinberg Sch of Med & UMN Sch of Med, Chicago/Minneapolis; John S. Lee, Princeton Univ & UMN Sch of Med, Princeton /Minneapolis; Jong Y. Lee, Silvia H. Azar, Franz Halberg, Univ of Minnesota Sch of Med, Minneapolis, Minnesota

4:45 **Epigenetic Regulation of the Human Angiotensinogen Gene: Role of Individual SNPs and Implication for Hypertension** **48**
Brahmaraju Mopidevi, Sravankumar Perla, Nitin Puri, Ashok Kumar, The Univ of Toledo, Toledo, Ohio

3:30–5:00 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** **49**
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** **50**
Jordan Kho, Baylor Coll of Med, Houston, Texas; Xiao Yu Tian, Wing Tak Wong, Houston Methodist Res Inst, Houston, Texas; Terry Bertin, Ming Ming Jiang, Karl-Dimiter Bissig, Sandesh C. Nagamani, Brendan H. Lee, Baylor Coll of Med, Houston, Texas

Program Agenda (continued)

- 4:00 **The Role of Immunological Memory in Hypertension**
Hana A. Itani, Liang Xiao, Mohamed A. Saleh, Jing Wu, Bethany L. Dale, Nataliya R. Barbaro, 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 (PGF) Reduces Blood Pressure and Improves Endothelin Type B Receptor (ETBR)-Mediated Microvascular Dilation in Hypertensive Pregnant Rats**
Marc Q. Mazzuca, 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** 55
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** 56
 Justin L. Grobe, PhD, FAHA, Assistant Professor of Pharmacology, University Iowa, Iowa City, Iowa
- 51 5:55 **High Blood Pressure Research Council Australia Young Investigator Award** 57
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** 58
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
Palladian Ballroom
 *Open to all. Seating is limited. First come, first served.
- FRIDAY, SEPTEMBER 18**
- 7:00 AM
Registration Opens
West Registration Desk
- 7:00 AM
Exhibits and Coffee
Ambassador Ballroom
- 7:00–8:00 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

Program Agenda (continued)

FRIDAY

8:30 AM Oral Session XIV Concurrent A The Kidney and Hypertension I <i>Regency Ballroom</i> 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	59	
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.	60	
9:00	Kidney-specific Klotho Gene Deficiency Impairs Sodium Excretion and Causes Hypertension Quaisar Ali , Xiuqing Wang, Zhongjie Sun, Univ of Oklahoma, Oklahoma City, Oklahoma	61	
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	62	
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	63	
9:45	20-HETE Contributes to Vasoconstriction 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	64	
8:30 AM Oral Session XIV Concurrent B Vascular Biology I <i>Diplomat Ballroom</i> 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	65	
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	66	
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	67	
9:15	Role for the Rho-GAP Gaf3 in the Pathogenesis of Human Hypertension Xue Bai, Kevin Mangum, Christopher Mack, Joan M. Taylor , Univ of North Carolina, Chapel Hill, North Carolina	68	
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	69	

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 Sftt-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. McAfee, D'Andrea S. Thomas, Babbette LaMarca, The Univ of Mississippi Medical Ctr, Jackson, Mississippi

10:00–10:30 AM

Refreshments and Exhibits

- 71 *Ambassador Ballroom*

10:30 AM–12:30 PM

Oral Session XV

10:30 AM

The Harriet Dustan Award Lecture *Regency Ballroom*

Moderator:

- 72 Jane F. Reckelhoff, PhD, FAHA, Professor, University of Mississippi Medical Center, Jackson, Mississippi

Redox Biology and the Vascular Phenotype in Hypertension

- 73 Rhian Touyz, MBBCh, 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:

- 74 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

FRIDAY

Program Agenda (continued)

FRIDAY

- | | | | |
|--|---|---|---|
| <p>11:15 Functional Significance of the Chymase/Ang-(1-12) Pathway on Cardiomyocytes
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</p> <p>11:30 G Protein-Coupled Estrogen Receptor Deletion Exacerbates Pulse Pressure in Female but not Male Hypertensive Mice
Sarah H. Lindsey, Emma H. Trimmer, Margaret A. Zimmerman, Tulane Univ Sch of Med, New Orleans, Louisiana</p> <p>11:45 Role of High-mobility Group Box 1 in Angiotensin Converting Enzyme 2-Mediated Cardioprotective Effects in a Mouse Model of Myocardial Ischemia
Yanfei Qi, Juan Zhang, Lei Wang, Eric Krause, S. Paul Oh, Vinayak Shenoy, Dominic S. Guzzo, Michael J. Katovich, Mohan K. Raizada, Carl J. Pepine, Univ of Florida, Gainesville, Florida</p> <p>12:00 Intracerebroventricular (ICV) Infusion of Angiotensin-(1-7) Lowers Blood Pressure and Improves Autonomic Function in Antenatal Betamethasone Exposed Sheep
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, Hossam A. Shaltout, Hypertension and Vascular Res Ctr, Wake Forest Sch of Med, Winston Salem, North Carolina</p> <p>12:15 High Fat Diet Promotes Haplotype Dependent Differential Transcriptional Regulation of the Human Angiotensinogen Gene
Anita Rana, Sudhir Jain, Nitin Puri, Deniz Eren, Natalie Sirianni, Ashok Kumar, The Univ of Toledo, Toledo, Ohio</p> | <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> | <p>11:00 AM
Oral Session XV Concurrent B
Obesity and Diabetes
<i>Diplomat Ballroom</i></p> <p>Moderators:
Sean D. Stocker, PhD, Penn State University College of Medicine, Hershey, Pennsylvania
Kamal Rahmouni, PhD, FAHA, University of Iowa, Iowa City, Iowa</p> <p>11:00 Metabolic and Cardiovascular Effects of BBS1 Ablation From the POMC-containing Neurons
Deng F. Guo, Donald A. Morgan, Justin Grobe, Val Sheffield, Kamal Rahmouni, the Univ of Iowa, Iowa City, Iowa</p> <p>11:15 Significant Roles of Hyperglycemia and Obesity in the Disruption of Blood Pressure Circadian Rhythm in Leptin-receptor Mutant Db/db Mice
Tianfei Hou, Wen Su, Ming Gong, Zhenheng Guo, Univ of Kentucky, Lexington, Kentucky</p> <p>11:30 Role of Suppressor of Cytokines Signaling 3 (Socs3) in Modulating Chronic Metabolic and Cardiovascular Effects of Leptin
Jussara M. do Carmo, John Nathan Freeman, Univ of Mississippi Medical Ctr, Jackson, Mississippi; Alexandre A. DaSilva, Ctr Univrio Barao de Maua, Ribeirao Preto/Sao Paulo, Brazil; Zhen Wang, John E. Hall, Univ of Mississippi Medical Ctr, Jackson, Mississippi</p> <p>11:45 Insulin Receptor Signaling in the Subfornical Organ Protects Against the Development of Metabolic Syndrome
Julie A. Horwath, Weill Cornell Medical Coll, New York, New York; Scott D. Butler, Cornell Univ, Ithaca, New York; Allyn L. Mark, Univ of Iowa, Iowa City, Iowa; Robin L. Davisson, Cornell Univ, Ithaca, New York; Colin N. Young, The George Washington Univ, Washington, DC</p> <p>12:00 Human Stomach Cell Gastrin Inhibits Renal NHE3 and NaKATPase in Concert With the Renal D1R
John J. Gildea, Peng Xu, Chi Zhang, Dora Bigler Wang, Hahn T. Tran, Univ of Virginia, Charlottesville, Virginia; Pedro A. Jose, Univ of Maryland Sch of Med, Baltimore, Maryland; Robin A. Felder, Univ of Virginia, Charlottesville, Virginia</p> <p>12:15 Exercise Training Restores miRNA-1 and -29c in Obese Preventing Pathological Cardiac Hypertrophy via Targets in the Collagen and Calcium- Signaling Pathway
André C. Silveira, Tiago Fernandes, Ursula Paula Soci, Carlos Eduardo Negrao, Edilamar Menezes Oliveira, EEFUEUSP- Univ Of São Paulo, São Paulo, Brazil</p> | <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> |
|--|---|---|---|

Program Agenda (continued)

11:00 AM

Oral Session XV Concurrent C

Clinical Hypertension

Empire Ballroom

Moderators:

John Bisognano, MD, PhD, University of Rochester Medical Center, Rochester, New York
TBD

- 11:00 **CD36 Genetic Variant Impacts Nitric Oxide Regulation of Endothelial Function: Response to Chronic Treatment with Phosphodiesterase 5 Inhibition**

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

- 11:15 **Outcomes of Hypertensive Crises as Predicted by Red Cell Distribution Width**
Suraj Raheja, Henry Ford Hosp, Detroit, Michigan; Kush Patel, St. George Univ, St. George, Grenada; Ruchir Patel, Sagger Mawri, Alexander Michaels, Joseph Gibbs, James McCord, Henry Ford Hosp, Detroit, Michigan

- 11:30 **High Density Adrenal MRI Detects Clinically Relevant Aldosterone-producing Adenomas with Higher Precision than Computer Tomography**
Inbar Raber, Robert Isom, John Louie, Shreyas Vasanawala, Vivek Bhalla, Stanford Univ, Stanford, California

- 11:45 **Low Birth Weight per se Is Not a Determinant of Vascular Dysfunction and Presumably Future Cardiovascular Risk in Humans**
Stefano Rimoldi, Emrush Rexhaj, Univ of Bern, Bern, Switzerland; Roman Brenner, Kantonsspital St. Gallen, St. Gallen, Switzerland; Claudio Sartori, Univ of Lausanne, Lausanne, Switzerland; Luigi Raio, Yves Allemann, Urs Scherrer, Univ of Bern, Bern, Switzerland

- 12:00 **Could Spironolactone Be More Effective Than Sympathetic Renal Denervation to Treat True Resistant Hypertension? Preliminary Results from the DENERVHTA Study**
Anna Oliveras, Nephrology Dept. Hosp del Mar, Barcelona, Spain; Pedro Armario, Vascular Risk Area, Hosp Moisès Broggi, Sant Joan Despí, Barcelona, Spain; Laia Sans Atxer, Nephrology Dpt. Hosp del Mar, Barcelona, Spain; Albert Clarà, 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

- 12:15 **Gain-of-function EPHX2 Variant rs41507953 Is Associated With Acute Kidney Injury Following Cardiac Surgery**
Megan M. Shuey, Frederic T. Billings IV, Shouzu Wei, Ginger L. Milne, Nancy J. Brown, Vanderbilt Univ, Nashville, Tennessee

12:30–2:00 PM

Annual Business Meeting and Awards Luncheon

*Ticketed event.

Palladian Ballroom

2:00–3:30 PM

Poster Session III

Regency Ballroom

- 90 Posters P201–P259, P628–P645 and.....MP09–MP16 will be presented during this session. See page 33 for details.

3:30–5:00 PM

Oral Session XVI

3:30 PM

Oral Session XVI Concurrent A

Oxidative Stress I

Regency Ballroom

Moderators:

Daniel N. Meijles, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania
Matthew C. Zimmerman, PhD, University of Nebraska Medical Ctr, Omaha, Nebraska

- 92 3:30 **Human (Pro)renin Receptor Activation Induces an Angiotensin II-Independent Pressor Response Mediated by NADPH Oxidase 4 Activity**
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
- 3:45 **Sequential Activation of Nox1 and Gremlin1 Leads to Endothelial Proliferation in Human Pulmonary Arterial Hypertension**
Imad Al Ghouleh, Sanghamitra Sahoo, Daniel N. Meijles, Univ of Pittsburgh, Pittsburgh, Pennsylvania; Jefferson 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
- 96

FRIDAY

Program Agenda (continued)

- | | | | | |
|------|--|-----|--|-----|
| 4:00 | Vascular Aging in Aldosterone Associated Hypertension: Role of NADPH Oxidase 1
Adam Harvey , Augusto C. Montezano, Katie Y. Hood, Rheure A. Lopes, Delyth Graham, Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom | 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 | |
| 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 | 98 | 3:45 Renal Mechanisms of Blood Pressure Homeostasis and Salt Sensitivity by Collectrin
Pei-Lun Chu , Joseph C. Gigliotti, Sylvia Cechova, 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; Alicia A. McDonough, Univ of Southern California, Los Angeles, California; Thu H. Le, Univ of Virginia, Charlottesville, Virginia | 102 |
| 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 Leckerman, Anastasiya Strembitska, Carol Jenkins, Jacqueline Thomson, Delyth Graham, Rhian M. Touyz, Inst of Cardiovascular and Medical Sciences - Univ of Glasgow, Glasgow, United Kingdom | 99 | 4:00 Increased Blood Pressure Drives Renal Renal T-cell Infiltration in the Dahl Salt-Sensitive Rat
Louise C. Evans , Galina Petrova, Theresa Kurth, David L Mattson, Allen W. Cowley Jr., Medical Coll of Wisconsin, Milwaukee, Wisconsin | 103 |
| 4:45 | Sorting Nexin 1: Molecular Mechanisms and Pharmacogenomics
Jian Yang, Daping Hosp, The Third Military Medical Univ, Chongqing, China; Laureano Asico, Amber Beitelshes, Xiaoyan Wang, John Jones, Ines Armando, Santiago Cuevas, Univ of Maryland Sch of Med, Baltimore, Maryland; Chunyu 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 | 100 | 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 | 104 |
| | | | 4:30 High Salt Activates Immune Cells to Promote Hypertension
Annet Kirabo , Natalia R. Barbaro, Jason D. Foss, Allison E. Norlander, Sergey Dikalov, Meena S. Madhur, David G. Harrison, Vanderbilt Univ Coll of Med, Nashville, Tennessee | 105 |
| | | | 4:45 Hypothalamic PVN Gal2 Protein-mediated Renal Nerve Dependent Sympathoinhibition Facilitates Suppression of NCC Activity and a Salt-resistant Phenotype
Richard D. Wainford , Boston Univ, Boston, Massachusetts | 106 |
| | | | 5:00–5:15 PM
Refreshments and Exhibits
<i>Ambassador Ballroom</i> | |
| 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 Kamat, Univ of Southern California, Los Angeles, California; Benjamin Ko, Univ of Chicago, Chicago, Illinois; Annet Kirabo, Juan Gnecco, Mohamed A. | 101 | | |

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

FRIDAY

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 107

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 Prchal, 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 108

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 109

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 110

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 111

Kuey-Chu Chen, **Analía S. Loria**, Dept of Pharmacology and Nutritional Sciences, Univ of Kentucky, Lexington, Kentucky

FRIDAY/SATURDAY

Program Agenda (continued)

9:45	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	112	9:45	Role of Connecting Tubule Glomerular Feedback in Tubuloglomerular Feedback Resetting After Unilateral Nephrectomy Sumit R. Monu , Hong Wang, Yilin Ren, Kristopher Kutschall, 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	118
8:30 AM Oral Session XVIII Concurrent B Kidney and Hypertension II <i>Diplomat Ballroom</i> 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	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	113	8:30	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	119
8:45	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. Ralph, Alicia A. McDonough, Univ of Southern California, Los Angeles, California	114	8:45	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	120
9:00	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, Manoocher Soleimani, Univ of Cincinnati, Cincinnati, Ohio	115	9:00	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	121
9:15	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, Univ of Virginia, Charlottesville, Virginia; Pedro A. Jose, Univ of Maryland, Baltimore, Maryland; Robin A. Felder , Univ of Virginia, Charlottesville, Virginia	116	9:15	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	122
9:30	NOS1β Mediates the Difference Between Juxtamedullary 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	117			

SATURDAY

Program Agenda (continued)

- 9:30 **Age-Related Endothelial Senescence is Driven by Thrombospondin-1-Activated NADPH Oxidase Nox1**
Daniel N. Meijles, Imad Al Ghoulh, Sanghamitra Sahoo, Jefferson H. Amaral, Heather Knupp, Shireen Attaran, Raquel Bienes-Martinez, John C. Sembrat, Mauricio Rojas, Jeffrey S. Isenberg, Patrick J. Pagano, Univ of Pittsburgh, Pittsburgh, Pennsylvania
- 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-Delbrück Ctr for Molecular Med (MDC), Berlin, Germany; Florian Herse, Nadine Haase, Michaela Golic, Experimental and Clinical Res Ctr (ECRC), Berlin, Germany; Anne Cathrine Staff, Oslo Univ Hosp, Oslo, Norway; 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 Izsvak, Max-Delbrück 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**
Liliya M. Yamaleyeva, K. Bridget Brosnihan, Carolynne McGee, Sara Shi, Jasmina Varagic, Wake Forest Sch of Med, Winston-Salem, North

- 123 Carolina; Michael Bader, Max Delbrück Ctr for Molecular Med, Berlin-Buch, Germany; Ralf Dechend, Charité Univ Hosp Berlin, Berlin, Germany; Hossam A. Shaltout, Wake Forest Sch of Med, Winston-Salem, North Carolina
- 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)**
Ana Cristina Valbuena-Diez, Weill Cornell Medical Coll, New York, New York; Jenny Sones, Scott Butler, Robin Davisson, Coll of Veterinary Med, Ithaca, New York
- 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 (RCAT), 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, Lixin Ma, Vincent G. DeMarco, Luis A. Martinez-Lemus, Gerald A. Meininger, Univ of Missouri, Columbia, Missouri; Iris Z. Jaffe, Tufts Univ Medical Sch, Boston, Massachusetts; James R. Sowers, Univ of Missouri, Columbia, Missouri

SATURDAY

Program Agenda (continued)

SATURDAY

- 10:45 **Leptin-mediated Aldosterone Secretion Causes Hypertension in Obese Females**
Eric J. Belin de Chantemèle, 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 Jaissier, INSERM U1138, Ctr de Recherche de Cordeliers, Paris, France
- 11:15 **Activation of the Mineralocorticoid Receptor by O-glycosylation Through Hyperglycemia**
Maniselman 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

132

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

133

- 10:30 **Conditional Knockout of Sphingosine-1-Phosphate Receptor 1 in Renal Collecting Ducts Promotes Sodium Retention in Mice**
Qing Zhu, Weili 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; Zixi Cheng, Univ of Central Florida, Orlando, Florida; 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.

Poster Session Date	Presentation Time	Set-up Time	Tear-Down Time
Session I Wednesday, September 16	6:00–9:00 PM	2:00–6:00 PM	9:00–10:00 PM
Session II Thursday, September 17	1:00–2:30 PM	10:00 AM–2:30 PM	2:30–3:30 PM
Session III Friday, September 18	2:00–3:30 PM	10:00 AM–2:00 PM	3:30–4:30 PM

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

Poster Presentations (continued)

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 Niiyama, Naohiro Yoshida, Kanako Bokuda, Midori Yatabe, Junichi Yatabe, Daisuke Watanabe, Takashi Ando, Atsuhiko 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, Rheure 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 Nobility and Significance of the Rapid Measurement of Plasma Aldosterone Concentration and Active Renin Concentration

Fumitoshi Satoh, Yoshikiyo 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, Jackson, MS; Hironobu 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, Luminita 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)**

Nuno Pires, Bruno Igreja, Eduardo Moura, Maria João Bonifácio, BIAL-Portela & C^a, S.A., Coronado (S. Romão e S. Mamede), Portugal; Paula Serrão, **Patrício Soares-da-Silva**, MedInUP-Ctr for Drug Discovery and Innovative Meds, Univ Porto, Porto, Portugal

- 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 Saito, 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; Joohwan 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; David D. Gutterman, Cardiovascular Ctr; 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

Poster Presentations (continued)

- P006** **Liraglutide Attenuates Cardiac Fibrosis and Vascular Dysfunction in a Non-diabetic Angiotensin II-infusion Model via Anti-inflammatory and Anti-oxidant Mechanism**
Huey Wen Lee, Melita Brdar, Robert Widdop, Anthony Dear, Tracey Gaspari, Monash Univ, Victoria, Australia
- P007** **Hypertension and Myocardial Mechanics in Patients with Hypertrophic Cardiomyopathy**
Kevin K. Manocha, David F. Snipelisky, Mayo Clinic, Rochester, MN
- P008** **Impact of Hydrogen Sulfide on the Epigenetics of Diabetic Cardiomyopathy**
Sudhakar Veeranki, Sourav Kundu, Srikanth Givvimnai, Suresh C. Tyagi, Univ of Louisville, Louisville, KY
- P009** **Relationship Between Increased Systolic and Diastolic Pressure and Left Atrial Train Rate**
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
- P010** **Specific Renal Outer Medulla Upregulation of α - and β -Adrenergic Receptor Subtypes in Spontaneously Hypertensive African Green Monkeys**
Megan K. Rhoads, Jeffrey L. Osborn, Univ of Kentucky, Lexington, KY
- P011** **Source and Catabolism Sites of the Cardio-renal Protective Peptide N-Acetyl-Seryl-Aspartyl-Lysyl-Proline (Ac-SDKP)**
Cesar A. Romero, Nitin Kumar, Nour-Eddine Rhaleb, Oscar A. Carretero, Henry Ford Hosp, Detroit, MI
- P012** **Mycophenolate Mofetil Prevents Cerebrovascular Injury in Stroke-prone Spontaneously Hypertensive Rats**
Isha S. Dhande, Yaming Zhu, Peter A. Doris, Univ of Texas Health Science Ctr, Houston, TX
- P013** **Meta-analysis of Poor Outcomes and Permissive Hypertension after Acute Ischemic Stroke**
Alexander Ivanov, Ambreen Mohamed, Alex Korniyenko, NYMH, Brooklyn, NY
- P014** **Poor Blood Pressure Control and Severe Coronary Artery Lesions Are Risks of Cerebral Microbleeds in Patients With Coronary Artery Disease During Antiplatelet Therapy**
Yoshiko Iwamoto, Kurume Univ Sch of Med, Kurume, Japan
- P015** **Bilateral Common Carotid Artery Stenosis in Hypertensive Rats Impairs Dilation in Penetrating Arterioles and Posterior Communicating Arteries**
Nusrat Matin, Courtney Fisher, William F. Jackson, Anne M. Dorrance, Michigan State Univ, East Lansing, MI
- P016** **GGY4137, a Hydrogen Sulfide Donor, Mitigates Ang II-induced Extracellular Matrix Remodeling in Glomerular Endothelial and Mesangial Cells**
Matthew Amin, Sathnur Pushpakumar, Sourav Kundu, Geetansh Tyagi, Aaron Tyagi, Utpal Sen, Univ of Louisville, Louisville, KY
- P017** **Contribution of High Mobility Group Box 1 to Hyperhomocysteinemia-induced Podocyte Injury and Glomerular Sclerosis**
Krishna M. Boini, Min Xia, Sabena M. Conley, Guangbi Li, Saisudha Koka, Todd W. Gehr, Pin-Lan Li, Virginia Commonwealth Univ., Richmond, VA
- P018** **Periodic Water Intake Exacerbates Hypertension, Decreases Renal Function and Increases Renal Inflammation in Spontaneously Hypertensive Rats**
Lucinda M. Hilliard, Louise Bulmer, Katrina M. Mirabito, Antony Vinh, Kate M. Denton, Monash Univ, Melbourne, Australia
- P019** **Upregulation of Autophagy Enhances (pro)renin Receptor Expression via P62 -erk1/2 Signaling Pathway in Podocytes**
Caixia Li, Syed Quadri, Helmy M. Siragy, Univ of Virginia, Charlottesville, VA
- P020** **Decreased Survival Rate in Female Obese Leptin Receptor Mutant Dahl Salt-Sensitive Rats that Develop Chronic Kidney Disease**
Kasi McPherson, Univ of Mississippi Medical Ctr, Jackson, MS; Devin Guillory, Jackson State Univ, Jackson, MS; Lateia Taylor, Denisha Spires, Ashley C Johnson, Michael R. Garrett, Jan M Williams, Univ of Mississippi Medical Ctr, Jackson, MS
- P021** **The Combined Effects of Elevated Intrarenal Ang II and Blood Pressure Causes Greater Renal Injury in the Non-clipped Kidneys in 2k1c Rat**
Kayoko Miyata, Weijian Shao, Minolfa Prieto, Ryousuke Satou, Akemi Katsurada, Dale Seth, Kenneth D Mitchell, L. Gabriel Navar, Tulane Univ, New Orleans, LA
- P022** **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)**
Yoshiaki Ohyama, Bharath Ambale-Venkatesh, Kihei Yoneyama, Sirisha Donekal, Satoru Kishi, Gustavo J. Volpe, Johns Hopkins Univ, Baltimore, MD; Nisha Bensal, Bryan Kestenbaum, Univ of Washington, Seattle, WA; Tetsutya Nakamura, Gunma Univ Hosp, Maebashi, Japan; Holly Kramer, Loyola university chicago, Chicago, IL; Micheal Shlipak, Univ of California, San Francisco, San Francisco, CA; Wu O. Colin, Natl Heart, Lung and Blood Inst, Bethesda, MD; David A. Bluemke, Natl Insts of Health, Bethesda, MD; Joao A. Lima, Johns Hopkins Univ, Baltimore, MD

Poster Presentations (continued)

- 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 Dhingra, Mikhail Torosoff, 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 Ohri, Konstantin Gospodinov, Asiq Yanakeva, Tatqna Chakalova, Univ Hosp, Dr. Georgi Stranski, Pleven, Bulgaria; Soumya Jose, MOSC Medical Coll, Kolenchery, 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 Woperr, 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; Sheilah 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, Adviye 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, Ryosuke Satou, Minolfa C. Prieto, 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 Gornitsky, Tlili Barhoumi, Pierre Paradis, Ernesto Schiffrin, Lady Davis Inst for Medical Res, Montréal, 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 Gornitsky, Asia Rehman, Lady Davis Inst for Medical Res, Montréal, 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; Tlili Barhoumi, Pierre Paradis, Ernesto Schiffrin, Lady Davis Inst for Medical Res, Montréal, 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 Waghulde, 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 Filipaik, Thomas Saunders, Transgenic Animal Model Core, Univ of Michigan, Ann Arbor, MI; Bina Joe, Ctr for Hypertension and Personalized
- 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 Waghulde, 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 Netrin Gene**
Anuradha Kalani, Mohammed Nur, 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 Puri, 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 Witkowska, 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, Miller Sch of Med, Miami, FL; Vivek Yarlaga, 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 C57Bl6j 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 Gouloupoulou, Univ of North Texas Health Sciences

Poster Presentations (continued)

- Ctr, Fort Worth, TX; Safia Ogbi, Babak Baban, Georgia Regents Univ, Augusta, GA; Takayuki Matsumoto, Hoshi Univ, Toyko, Japan; R. Clinton Webb, Georgia Regents Univ, Augusta, GA
- P055 Systemic Arterial Hypertension Induces Pulmonary Injury Beyond Protein Degradation and Atrophy of Diaphragm**
Pamella 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; Janaina B. Ferreira, Experimental Hypertension Lab-Heart Inst, São Paulo, Brazil; Alessandra Medeiros, Federal Univ of Sao Paulo, Santos, Brazil; Katia De Angelis, Fernanda M. Consolim-Colombo, 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 Beusecum, 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 Ahmari, Jordan T. Schmidt, Christopher J. Martyniuk, Jessica Marulanda Carvajal, Seungbum Kim, Mohan K. Raizada, 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 Role of Amino peptidase A in the Brain on Cardiovascular Regulation of Conscious Rat**
Takuto Nakamura, Masanobu Yamazato, Akio Ishida, Yusuke Ohya, Univ of the Ryukyus Sch of Med, Nakagami-Gun Nisihara-Cho, Japan
- P060 Angiotensin AT1A Receptors on Vasopressin-Expressing Cells are Dispensable for DOCA-salt Hypertension**
Jeremy A. Sandgren, Danny W Linggonegoro, 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 Shinohara, Benjamin J. Weidemann, Matthew D. Folchert, 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 Ouerd, Júlio 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. Schiffrin, 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**
Gaizun Hu, Osamu Ito, Rong Rong, Bin Xu, Akihiro Sakuyama, Takahiro Miura, Yoshiko Ogawa, Daisuke Ito, Masahiro Kohzuki, Tohoku Univ, Sendai, Japan
- P064 Case Report of Mals Surgery in Postural Orthostatic Tachycardia Syndrome**
Chandralekha Ashangari, Amer Suleman, Dept of Cardiology-The Heartbeat Clinic, McKinney, TX
- P065 Pacemaker Tapping Maneuver in the Treatment of Orthostatic Hypotension**
Chandralekha 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**
Chandralekha 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; Toyonji 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. Thelma, 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

Poster Presentations (continued)

- P068 Comparison Effects of Leptin and Phentolamine on Cardiovascular System**
Khaled M. Hasan, Univ of Maryland Eastern Shore, Princess Anne, MD
- P069 1H-Magnetic Resonance Spectroscopy Reveals Elevation of Myoinositol 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, UPMC Univ Paris 06, Univ Paris, Paris, France; Aurelie Nguyen Dinh Cat, Inst of Cardiovascular and Medical Sciences, Univ of Glasgow, Glasgow, United Kingdom; Nicolas Venteclef, INSERM, UMR_S 1138, Team 8, Ctr de Recherche des Cordeliers, UPMC Univ Paris 06, Univ Paris Descartes, F-75006, Paris, France; Soumaya El Moghrabi, INSERM, UMR_S 1138, Team 1, Ctr de Recherche des Cordeliers, UPMC 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 Jaissier, INSERM, UMR_S 1138, Team 1, Ctr de Recherche des Cordeliers, UPMC Univ Paris 06, Univ Paris Descartes, F-75006, Paris, France
- P072 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. Potthoff, Aloysius Klingelutz, Curt D. Sigmund, Justin L. Grobe, Univ of Iowa, Iowa City, IA
- P073 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 Montezano, Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom; Rita C. Tostes, Univ of Sao Paulo, Ribeirao Preto, Brazil
- P074 Role of Peroxisome Proliferator-Activated Receptor-γ (PPAR) 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
- P075 Stroke Volume and Visceral Fat Drive Differences in Blood Pressure Between Two Generations: A Population-Based Study of Adolescents and Their Parents**
Catriona 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, Chicoutimi, QC, Canada; Tomas Paus, Univ of Toronto, Toronto, ON, Canada; Zdenka Pausova, The Hosp for Sick Children, Toronto, ON, Canada
- P076 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- κ B 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; Shogo Ito, Yusuke Sano, Kai Nagasawa, 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; Kohzo Nagata, Dept of Pathophysiological Lab Sciences, Nagoya Univ Graduate Sch Of Med, Nagoya, Japan
- P078 Cardiovascular Autonomic Impairment Triggers Cardiometabolic Dysfunction in an Experimental 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; Maria-Cláudia Irigoyen, Heart Inst (InCOR), Univ de Sao Paulo (USP) Sao Paulo, Brazil, Sao Paulo, Brazil; Kátia De Angelis, Lab of Translational Physiology, Univ Nove de Julho (UNINOVE), Sao Paulo, Brazil, Sao Paulo, Brazil
- 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, São Paulo, Brazil; Maria-Cláudia Irigoyen, Univ of São Paulo, São Paulo, Brazil; Katia De Angelis, Univ Nove de Julho, São Paulo, Brazil
- 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, Jamel 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, Henry 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
- P086 Superoxide but Not Hydrogen Peroxide Increases Nuclear Translocation of Transcription Factor Sp3 and AT1 Receptor Expression in the Renal Cells**
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 Drever, 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

Poster Presentations (continued)

- P089 Inhibition of AT1-AAAs by Direct Binding Reduces Blood Pressure and Natural Killer Cell Activation in Response to Placental Ischemia of Pregnancy; Emphasizing the Importance of Novel Drug Development in the Treatment of Preeclampsia**
Nathan Campbell, Mark W. Cunningham Jr., Denise C. Cornelius, Babbette LaMarca, Univ of Mississippi Medical Ctr, Jackson, MS
- P090 Agonistic Autoantibodies to the Angiotensin II Type 1 Receptor Enhances ANG II Induced Renal Vascular Sensitivity and Reduces Renal Function During Pregnancy**
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
- P091 Vitamin D Supplementation Inhibits Blood Pressure and Uterine Artery Resistance Induced by Autoantibodies to the AT1 Receptor**
Jessica L. Faulkner, Mark W. Cunningham Jr., Lorena M. Amaral, Tarek Ibrahim, Denise C. Cornelius, D'Andrea S. Thomas, Univ Mississippi Med Cntr, Jackson, MS; Gerd Wallukat, Ralf Dechend, HELIOS Clinic, Charite, Campus-Buch & Max-Delbrueck Ctr, Berlin, Germany; Babbette LaMarca, Univ Mississippi Med Cntr, Jackson, MS
- P092 Proliferation of Endogenous T-regulatory Cells Improves the Pathophysiology Associated with Placental Ischemia of Pregnancy**
Tarek Ibrahim, Univ of MS Medical Ctr, Jackson, MS; Lukasz 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 of MS Medical Ctr, Jackson, MS
- P093 The Sflt-1/plgf Ratio Associates with Prolongation of Pregnancy**
Langeza Saleh, Koen Verdonk, Jan A. Danser, Eric A. Steegers, Henk Russcher, Anton H. van den Meiracker, Willy Visser, Erasmus MC, Rotterdam, the Netherlands, Rotterdam, Netherlands
- P094 Vasopressin Infusion in Mice During Pregnancy Results in Immune Alterations Consistent with Human Preeclampsia**
Sabrina M. Scroggins, Donna A. Santillan, Univ of Iowa, Carver Coll of Med, Iowa City, IA; Nicole A. Pearson, Univ of Iowa, Iowa City, IA; Jeremy A. Sangren, Univ of Iowa,, Iowa City, IA; James Y. Min, Univ of Iowa, Iowa City, IA; Eric J Devor, Univ of Iowa, Carver Coll of Med, Iowa City, IA; Gary L. Pierce, Univ of Iowa, Iowa City, IA; Kimberly K. Leslie, Univ of Iowa, Carver Coll of Med, Iowa City, IA; Justin L. Grobe, Mark K Santillan, Univ of Iowa, Iowa City, IA
- P095 Effects of Obesity on Placental Ischemia-induced Hypertension**
Frank T. Spradley, Ana C. Palei, Joey P. Granger, Univ of Mississippi Medical Ctr, Jackson, MS
- P096 Vascular Protein Oxidation and Redox Proteomics in Human Hypertension**
Sofia Tsiropoulou, Augusto C. Montezano, Alan Scott, Richard J. Burchmore, Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom
- P097 Molecular Mechanisms of VEGFR Inhibition-induced Endothelial Cell Damage**
Francisco J. Rios, Augusto C. Montezano, Lucas Van Der Mey, Heather Y. Small, Univ of Glasgow, Glasgow, United Kingdom; Carmine Savoia, Sapienza Univ of Rome, Rome, Italy; Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom
- P098 G-protein Coupled Estrogen Receptor Stimulates Capillary Formation by Human Umbilical Vein Endothelial Cells via ALK1-SMAD 1/5/8 Pathway Activation**
Elisabeth Unterleutner, Lisa Rigassi, Federica Barchiesi, Bruno Imthurn, Raghvendra K Dubey, Univ Hosp Zurich, Zurich, Switzerland
- P099 Angiotensin Type I Receptor (AT1R) and (Pro)renin Receptor (PRR) Functional Heterodimer Mediates ERK Phosphorylation**
Syed Siraj Ahmed Quadri, Caixia Li, Silas Culver, Helmy M. Siragy, Univ of Virginia, Charlottesville, VA
- P100 (Pro)renin Receptor (PRR) Mediates Renal Inflammation in Renovascular Hypertension**
Syed Siraj Ahmed Quadri, Caixia Li, Silas Culver, Helmy M Siragy, Univ of Virginia, Charlottesville, VA
- P101 The Role of Primary Cilia in Vascular Endothelial Cells**
Hannah Saternos, Zubayer Hossain Saad, Wissam AbouAlaiwi, Univ of Toledo, Toledo, OH
- P102 Type I Diabetes Mellitus is More Sensitive to Ang II Due to Increased AT1 Receptor Expression in Afferent Arteriole**
Jie Zhang, Yan Lu, Shaohui Wang, Gensheng Zhang, Jin Wei, Kay-Pong Yip, Ruisheng Liu, Univ of South Florida, Tampa, FL
- P103 Cellular Stretch Induces Higher Intracellular Calcium Increases in Dahl Salt-Sensitive Than Salt-Resistant Rat Thick Ascending Limbs: Role of Transient Receptor Potential Vanilloid 4**
Pablo Cabral, Agustin Gonzalez-Vicente, Nancy Hong, Jeffrey Garvin, Case Western Reserve Univ, Cleveland, OH

Poster Presentations (continued)

- P104 Renin Angiotensin System (RAS) Modulation in Hypertension Program by Maternal Intrauterine Malnutrition**
Rafael S. Banti, Rodrigo Yokota, Danielle S. Aragão, Adriana Souza, Amanda Pedroso, Fernanda A. Ronchi, Eliane B. Ribeiro, Dulce E. Casarini, EPM, Univ Federal de São Paulo, São Paulo, Brazil; **Maria Claudina C. Andrade**, Insto Israelita de Ensino e Pesquisa Albert Einstein, São Paulo, Brazil
- P105 ACE2 Activator, Diminazene Aceturate, Reduces Adiposity, but Preserves Lean Mass in Young and Old Rats**
Erin Bruce, Yasemin Sakarya, Nataliya Kirichenko, Hale Z. Toklu, Drake Morgan, Nihal Tumer, Christy S. Carter, Philip J. Scarpace, Univ of Florida, Gainesville, FL
- P106 The Role of Inflammasomes and Angiotensin II Type 1 Receptor in the Pressor Responses of Aged Mice to Angiotensin II**
Quynh N. Dinh, Grant R. Drummond, Barbara K. Kemp-Harper, Henry Diep, Dept of Pharmacology, Monash Univ, Melbourne, Australia; Avril A. Robertson, Matthew A. Cooper, Div of Chemistry and Structural Biology, The Inst for Molecular Bioscience, The Univ of Queensland, Brisbane, Australia; Christopher G. Sobey, Sophocles Chrissobolis, Dept of Pharmacology, Monash Univ, Melbourne, Australia
- P107 Metabolic Syndrome and Human AT1R Expression in Transgenic Mice: Implications of Haplotype-dependent Transcriptional Regulation**
Anita Rana, Sudhir Jain, Deniz Eren, Natalie Sirianni, Meenakshi Kaw, Ashok Kumar, The Univ of Toledo, Toledo, OH
- P108 Caveolin-1 is Required for Vascular Remodeling Induced by Angiotensin II**
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, Christopher M. Loughrey, Stuart A. Nicklin, Univ 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
- P111 Cross-Inhibition of the Vasorelaxing Effect of Ang-(1-9) and Ang-(1-7) in Aortic Rings**
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
- P112 Mechanism of the Blood Pressure Response to a Novel Vascular Disrupting Combretastatin A1-Diphosphate (OXi4503)**
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
- P113 Angiotensin Converting Enzyme 2 Modulates Bradykinin B1 Receptor Function During DOCA-Salt Hypertension**
Srinivas Sriramula, Eric Lazartigues, LSU Health Sciences Ctr, New Orleans, LA
- P114 Mas Receptor Deficiency Increases Diastolic Blood Pressure and Reduces Cardiac Function in Obese Female Mice**
Yu Wang, Robin Shoemaker, Sean Thatcher, Lisa Cassis, Univ of Kentucky, Lexington, KY
- P115 Effects of Exercise Training on Renal Damage and Renin-angiotensin System in Dahl Salt-sensitive Rats**
Akihiro Sakuyama, Osamu Ito, Yoshiko Ogawa, Miwa Komatsu, Gaizun Hu, Takahiro Miura, Yoshikazu Muroya, Chihiro Suda, Masahiro Kohzuki, Tohoku Univ Graduate Sch of Med, Sendai, Japan
- P116 Effects of Febuxostat on Blood Pressure and Renal Functions in Dahl Salt-Sensitive Rats**
Akihiro Sakuyama, Osamu Ito, Yoshiko Ogawa, Miwa Komatsu, Gaizun Hu, Takahiro Miura, Yoshikazu Muroya, Chihiro Suda, Masahiro Kohzuki, Tohoku Univ Graduate Sch of Med, Sendai, Japan
- 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
- P118 Differential Effects of Renal α - and β -Adrenoreceptors in the Development of Sodium Chloride Cotransporter (NCC) Dysfunction and Salt-sensitive Hypertension**
Kathryn R. Walsh, Richard D. Wainford, Boston Univ Sch of Med, Boston, MA

Poster Presentations (continued)

- P119 Human Podoplanin+/vegfr-3+/lyve-1+ Monocytes are Lymphatic Endothelial Precursors**
Jae-II Choi, Jin Hur, Jae Hee Jang, Seoul Natl Univ Hosp, Seoul, Korea, Republic of; Il-Young Oh, Seoul Natl Univ Bundang Hosp, Bundang, Korea, Republic of; Hwan Lee, Pniel Nham, Injoo Hwang, Tae-Won Kim, Jeehoon Kang, Seoul Natl Univ Hosp, Seoul, Korea, Republic of; Chang-Hwan Yoon, Seoul Natl Univ Bundang Hosp, Bundang, Korea, Republic of; Han-Mo Yang, Yoo-Wook Kwon, Hyun-Jai Cho, Young-Bae Park, Hyo-Soo Kim, Seoul Natl Univ Hosp, Seoul, Korea, Republic of
- P120 Improving the Angiogenic Abilities of Mobilized Peripheral Blood Stem Cells Achieved by Priming with Activated Platelet Supernatant for Regenerative Cell Therapy**
Jae-II Choi, Jin Hur, Jin-A Kang, Ji-Yeon Yun, Hwan Lee, Pniel Nham, Injoo Hwang, Cheongwhan Chae, Tae-Won Kim, Jeehoon Kang, Seoul Natl Univ Hosp, Seoul, Korea, Republic of; Chang-Hwan Yoon, Seoul Natl Univ Bundang Hosp, Bundang, Korea, Republic of; Han-Mo Yang, Yoo-Wook Kwon, Hyun-Jai Cho, Young-Bae Park, Hyo-Soo Kim, Seoul Natl Univ Hosp, Seoul, Korea, Republic of
- 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 Adiponectin-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
- P124 Human Small Artery MicroRNA Expression Profiles: Changes in Type 2 Diabetes and Associations with Endothelial Function**
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
- P125 Visceral Adipose Tissue-derived Serine Protease Inhibitor Prevents the Development of Hypertension Through the Inhibition of Vascular Remodeling via Anti-Oxidative Mechanisms in Spontaneously Hypertensive Rats**
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 Ehken, Jérémy Lagrange, Maike 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 PPAR γ Target Gene Regulates Vascular Function**
Masashi Mukohda, Stella-Rita C. Ibeawuchi, Chunyan Hu, Frederick W. Quelle, Curt D. Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, IA
- P129 20-HETE Antagonist, 20-SOLA, Restores Coronary Collateral Growth in the Metabolic Syndrome**
Amanda A. Soler, Brenda Hutcheson, Manuel A. Devila-Molina, Ian Hunter, Victor G. Garcia, Michal L. Schwartzman, Petra Rocic, New York Medical Coll, Valhalla, NY
- 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-MYOC and Leiomodin1 Suppression by miRNA-214 Promotes Smooth Muscle Cell Phenotype Switching in Pulmonary Arterial Hypertension**
Sanghamitra Sahoo, Daniel Meijles, Imad Al Ghoul, Manuj Tandon, Eugenia Cifuentes-Pagano, John Sembrant, Mauricio Rojas, Elena Goncharova, Patrick Pagano, Vascular Med Inst, Pittsburgh, PA

Poster Presentations (continued)

- P132** **MEF2C-MYOCD and Leiomodinin1 Suppression by miRNA-214 Promotes Smooth Muscle Cell Phenotype Switching in Pulmonary Arterial Hypertension**
Sanghamitra Sahoo, Daniel N. Meijles, Imad Al Ghoulleh, Manuj Tandon, Eugenia Cifuentes-Pagano, John Sembrat, Mauricio Rojas, Elena A. Goncharova, Patrick J. Pagano, Univ of Pittsburgh Sch of Med, Pittsburgh, PA
- P133** **Mitochondrial- Dependent Apoptosis in Arterial Remodeling: Link to Hypertension**
Anastasia Familtseva, Anuradha Kalani, Pankaj Chaturvedi, Naira Metreveli, Suresh C. Tyagi, Univ of Louisville, Louisville, KY
- P134** **Identification of Tissue Inhibitor of Metalloproteinases (TIMP)-4 as a Novel PPAR γ 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**
Guang Yang, Katharina Grave, Manuel Thieme, Ulrike Hendgen-Cotta, Lars Christian Rump, Johannes Stegbauer, Heinrich-Heine-Univ, Duesseldorf, Germany
- P136** **What is the Impact of Arterial Stiffness on Brain's Health**
Helene Girouard, Dima Obari, Gervais Muhire, Diane Vallerand, Guylaine Ferland, 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; Imke Janssen, Rush Univ Medical Ctr, Chicago, IL; Joanne K. Mazzealli, 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** **Ft3 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; Yuejin Yang, Yi-Da Tang, Fuwai Hosp, Natl Ctr for Cardiovascular Diseases, CAMS & PUMC, Beijing, China
- Angiotensin Action and Signaling/Renin Angiotensin System 1**

Poster Chairs:
Mark Chappell, PhD, Wake Forest School of Medicine, Winston Salem, North Carolina
Robert Carey, MD, FAHA, University of Virginia, Charlottesville, Virginia
- P140** **Alamandine Signaling in Cardiomyocytes in Health and Disease**
Itamar C. G. Jesus, Sergio Scalzo, 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. García, Ludmila S. Peres Diaz, Maia Aisicovich, Mariano L. Schuman, María 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
- P144** **Effects of Alamandine in Post-ischemic Function**
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

Poster Presentations (continued)

- 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, Atsuhiko 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, Xiao C. Li, Fang Chen, Univ of Mississippi Medical Ctr, Jackson, MS; Manoocher 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**
Tilili 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. Schiffrin, 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, Relypsa, 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**
Jessica VonCannon, **Jasmina Varagic**, Sayaka Nagata, Sarfaraz Ahmad, Adair Locke, Hao Wang, Leanne Groban, Neil Kon, Carlos M. Ferrario, Wake Forest Univ Sch of Med, Winston Salem, NC
- 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. Ruilope, 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**
Debra I. Diz, John Olson, J. Daniel Bourland, Dalane Kitzman, Wake Forest Sch of Med, Winston Salem, NC; John Jeffrey Carr, Vanderbilt Univ, Nashville, TN; Stephen B. Kritchevsky, Leanne Groban, Hossam A. Shaltout, Wake Forest Sch of Med, Winston Salem, NC
- P150 Podocyte Derived Urinary Microparticles Are Elevated in Angiotensin II Induced Hypertension**
Uta Erdbruegger, 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 Brinkmann, Jan Menne, Jessica Kaufeld, Silvia Linnenweber-Held, Hannover Med Sch, Hannover, Germany; Joachim Beige, Hosp St. Georg, Leipzig, Germany; Mathias Wilhelm, Hannover Med Sch, Hannover, Germany; André Diedrich, Vanderbilt Univ, Nashville, TN; Hermann Haller, **Jens Jordan**, Jens Tank, Hannover Med Sch, Hannover, Germany
- P153 Impact of Antibiotic Treatment on Antihypertensive Drug Adherence**
Maria Kassi, Lindsay McCallum, Scott Muir, Rhian Touyz, 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**
Tobore Onojighofia, Natasha Anand, Brian Meshkin, Sanford Silverman, Derrick Holman, John Hubbard, May Hafez, Svetlana Kantorovich, Proove Biosciences, Irvine, CA

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

Poster Presentations (continued)

P604 **Equivalency Validation of a Novel Freely Moving Animal Based Telemetry System versus a Stationary Cage Bound System for Blood Pressure Recordings**
Harm Knot, **Gary Miller**, TSE Systems Inc., Chesterfield, MO

P605 **Liver-specific Antisense Inhibition of Angiotensinogen Reduced BP in a Hypertensive Rat Model Resistant to Standard RAS Inhibitors**
Adam E. Mullick, Steve T. Yeh, Mark J. Graham, Rosanne M. Croke, ISIS Pharmaceuticals, Carlsbad, CA

P606 **Blood Pressure Regulation in Patients with Meniere's Disease**
Dona 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 Selvetella, Daniela Cugino, Giovanni Grillea, 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**
Xian Wu Cheng, Guangxian Zhao, Xingyi Han, Ennan Fang, Xiang Li, Dongmei Zhou, Haiying Jiang, Yuzi Li, Lan Cui, Yanbian Univ Hosp, Yanji, China

P159 **Effect of Pharmacological Kinin Receptor Activation on Brain Damage and Mortality in Experimental Cerebral Ischemia in Non-diabetic and Diabetic Mice**
Dorinne Desposito, Christopher Taveau, Georges Zadigue, INSERM U1138, Paris, France; Clovis Adam, Univ Paris Sud, Paris, France; Nadine Bouby, Francois Alhenc-Gelas, Ronan Roussel, INSERM U1138, Paris, France

P160 **Role of Uncoupling Protein 2 in Stroke Susceptibility of Stroke-prone Spontaneously Hypertensive Rat**
Speranza Rubattu, Univ La Sapienza of Rome, Rome, Italy; Maria Cotugno, Franca Bianchi, Sara Di Castro, Rosita Stanzione, Carla Busceti, Simona Marchitti, IRCCS Neuromed, Pozzilli, Italy; Ferdinando Nicoletti, Massimo Volpe, Univ La Sapienza of Rome, Rome, Italy

P161 **Angiotensin Receptor Blockade Decreases Glutamate-induced Brain Inflammation**
Juan Saavedra, Georgetown Univ Medical Ctr, Washington, DC; Abdel G. Elkahoul, 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 Raij, 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**
Teresa Maria Seccia, Brasilina Caroccia, Francesca Gioco, Maria Piazza, Valentina Buccella, Barbara Montini, Diego Guidolin, Eugenia Guerzoni, Elisa Pagnin, Verdiana Ravarotto, Lorenzo Calò, 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 Horio, Kawasaki Medical Sch, Okayama, 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 Ohsaki, Takefumi Mori, Kento Akao, Yoshimi Nakamichi, Chika Takahashi, Sadayoshi Ito, Tohoku Univ, Sendai, Japan

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 Tubulointerstitial 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 Fischer344xBrown 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, Sarfaraz 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; Jamie E. Stucker, Michelle Reyes, Baylor Scott & White Health/TAMHSC-COM, Temple, TX; Syeda H. Afroze, 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. Afroze, Texas A&M Health Science Ctr Coll of Med, Temple, TX; Ram R. Kalagiri, 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, Liliya M. Yamaleyeva, Hypertension and Vascular Res Ctr, Wake Forest Sch of Med, Winston Salem, NC; Michael Bader, Max Delbrück Ctr for Molecular Med, Berlin-Buch, 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

Poster Presentations (continued)

- 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; Wiessam Abu Ahmad, Hadassah-Hebrew Univ, Medical Ctr, Ein-Kerem, Jerusalem, Israel; Zaid Abassi, RB 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. Schlaich, Baker IDI, Melbourne, Australia; Geoff A. Head, BakerIDI, Melbourne, Australia; Karen M. Moritz, Univ of Queensland, Brisbane, Australia; **Kate Denton**, Monash Univ, Melbourne, Australia
- P609 Estrogen Receptor ER α 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; Lananh 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. Crutsinger, Valorie 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; Vemananada Haritha, Ramanan Duraiswami, Nuzhat Aziz, 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; Steffany Bennett, Univ of Ottawa, Ottawa, QC, 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

Poster Presentations (continued)

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 Chrissobolis, Dept of Pharmacology, Monash Univ, Melbourne, Australia

P183 Myeloid-Derived Suppressor Cells Prevent Cyclosporine A-Induced Hypertension, Endothelial Dysfunction, and Renal Injury in Mice

Valerie 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

Bruno Igreja, Nuno Pires, Lyndon C. Wright, BIAL - Portela & Companhia, SA, Trofa, Portugal; Patrício Soares-da-Silva, MedInUP-Ctr for Drug Discovery and Innovative Meds, Univ Porto, Porto, Portugal

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, Laureano Asico, Van Anthony M. Villar, Xiaoxu Zheng, Santiago Cuevas, Ines Armando, Pedro A. Jose, Xiaoyan Wang, Univ of Maryland, Baltimore, MD

P188 Mitochondrial Redox Phenotype Contributes to Angiotensin Induced Hypertension

Amber Neville, Igor Leskov, David Krzywanski, LSU Health Science Ctr-Shreveport, Shreveport, LA

P616 Renal Sympathetic Outflow and Beta-adrenergic Signaling Promote Dendritic Cell Activation in Hypertension

Liang Xiao, Annet Kirabo, Roxana Loperena, Jason D. Foss, Raymond Mernaugh, L. Jackson Roberts II, Hana A Itani, Wei Chen, David G. Harrison, Vanderbilt Univ, Nashville, TN

P617 Angiotensin II-induced Hypertension and Vascular Injury is Mediated by Gamma/delta T Cells

Antoine Caillon, Muhammad Oneeb Rehman Mian, Tlili Barhoumi, Pierre Paradis, Ernesto L. Schiffrin, McGill Univ, Montreal, QC, Canada

P618 Foxp3+ Regulatory T cell Depletion Eliminates Ang II-Induced Hypertension Resistance in Female Mice

Dennis Pollock Jr., Melissa J. Romero-Aleshire, Jennifer Uhrhlaub, John P. Konhilas, Janko Nikolich-Zugich, Heddwen L. Brooks, Univ of Arizona, Tucson, AZ

P619 Teen Obesity Leads To Changes In The Circulatory T Lymphocyte Profile

Carmen De Miguel, Univ of Alabama at Birmingham, Birmingham, AL; Xiaojing Xu, Yue Pan, Dennis Ownby, Xiaoling Wang, Georgia Regents Univ, Augusta, GA; Jennifer S. Pollock, Univ of Alabama at Birmingham, Birmingham, AL

Neurogenic Mechanisms

Poster Chair:

TBD

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

P191 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

P192 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

P193 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 Sumners**, 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 Oganessian**, Univ of Washington, Seattle, WA
- P195 Transforming Growth Factor beta 1-Mediated Repression of Guanylyl Cyclase/Natriuretic Peptide Receptor-A Gene Expression and Function Involving TGF-beta 1 and Delta EF1 in Vascular Smooth Muscle Cells**
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, University 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 Habibi, Zhe Sun, Mona Garro, Luis Martinez-Lemus, Ravi Nistala, Adam Whaley-Connell, Gerald Meininger, 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 AbouAlaiwi**, 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, J lio 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. Schiffrin, 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

Poster Presentations (continued)

- P627 The $\beta 3$ 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. Wenceslau, 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 Swiercz, 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 Cardioresenal 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; Kathryn 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, Juan 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 (INSERM), Paris, France; Yuki Shibayama, Kagawa Univ Medical Sch, Kagawa, Japan

- P208 Effect of Rosiglitazone on Renal Neprilysin Activity and Protein Expression in Db/db Diabetic Mice**
 Laale Alawi, Sana Emberesh, **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

Poster Presentations (continued)

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, Vince DeMarco, Melvin Hayden, James Sowers, Adam Whaley-Connell, Univ of Missouri-Columbia, 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

Cardiac Hypertrophy and Dysfunction/ Cardiovascular Renal

Poster Chairs:

Karen Griffin, MD, Loyola University Medical Center, Maywood, Illinois
 Tianxin Yang, MD, PhD, University of Utah, Salt Lake City, Utah

- 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 Sr., 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**
Morghen Getty, Ellen Thompson, Christopher I. Jones, Paul I. Okhumale, 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. Danziger, Kumar Kotlo, 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. Hilgers, Kerstin Amann, **Roland Veelken**, Univ of Erlangen-Nuremberg, Erlangen, Germany

- P631 Cholesterol Is Required To Maintain T-tubule Integrity And Intercellular Connections At Intercalated Discs In Cardiomyocytes**
Yanqi Zhu, Shanghai General Hosp, Shanghai, China; Caimei Zhang, Div of Cardiovascular Med, Dept of Internal Med & François M. Abboud Cardiovascular Res Ctr, Univ of Iowa Carver Coll of Med, Iowa city, IA; Rong Chen, Shanghai General Hosp, Shanghai, China; Biyi Chen, Ang Guo, Div of Cardiovascular Med, Dept of Internal Med & François 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 & François M. Abboud Cardiovascular Res Ctr, Univ of Iowa Carver Coll of Med, Iowa city, IA

Poster Presentations (continued)

Clinical/Blood Pressure/Therapeutic/Other 2

Poster Chairs:

Fernando Eliovich, 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
Bruno Igreja, Nuno Pires, Lyndon C. Wright, BIAL - Portela & Companhia, SA, Trofa, Portugal; **Patrício Soares-da-Silva**, MedInUP-Ctr for Drug Discovery and Innovative Meds, Univ Porto, Porto, Portugal

P225 Time of Food Intake is an Important Determinant of Blood Pressure Circadian Rhythm
Wen Su, Jenny Lutshumba, Zhenheng Guo, Ming C. Gong, Univ of Kentucky, Lexington, KY

P226 Biochemical Properties of the N-terminally Palmitoylated Adrenomedullin
Mariko Tokashiki, Univ of Miyazaki, Miyazakishi, Japan; Keishi Kubo, Miyazaki Prefectural Nichinan Hosp., Nichinan, Japan; Kenji Kuwasako, Sayaka Nagata, Johji Kato, Kazuo Kitamura, Univ of Miyazaki, Miyazakishi, Japan

P227 Safety and Efficacy of Losartan/hydrochlorothiazide Combination in Elderly Patients with Morning Hypertension
Hiroki Uchiwa, Hlsashi Kai, Tamenobu Ueda, Takahiro Anegawa, Yuji Aoki, Yoshiko Iwamoto, Kenji Fukuda, Yoshihiro Fukumoto, Kurume Univ, Kurume, Japan

P228 Endothelial Dysfunction Markers and Coagulation Factors are Elevated in Individuals with Hypertensive Emergency

Jose F. Vilela-Martin, Days O. Andrade, Luciana N. Cosenso-Martin, Moacir F. Godoy, Michele L. Gregório, Dorotéia R. Souza, Juan C. Yugar-Toledo, Medical Sch in Sao Jose Rio Preto (FAMERP), Sao Jose Rio Preto, Brazil

P229 Is a Multidisciplinary Approach to Hypertension Better Than Traditional Care in Female Hypertensive Patients?

Jessica A. Weber, Shital C. Shah, Sara Turley, Lynne T. Braun, Erica R. Kent, **Annabelle S. Volgman**, Rush Univ Medical Ctr, Chicago, IL

P632 The Blood Pressure in Dialysis (BID) Pilot Study
Philip G. Zager, Univ of New Mexico, Albuquerque, NM; Dana Miskulin, Tufts Medical Ctr, Boston, MA; Jennifer Gassman, Cleveland Clinic, Cleveland, OH; David Plath, Medical Univ of South Carolina, Charleston, SC; Manisha Jhamb, Univ of Pittsburgh Medical Ctr, Pittsburgh, PA; Mahboob Rahman, Case Western Reserve Univ, Cleveland, OH; Lavinia Negrea, Univ Hosp Case Medical Ctr, Cleveland, OH; Cynthia Kendrick, Cleveland Clinic, Cleveland, OH

P633 Low Serum Vitamin D is Associated with Greater Impairment in Autonomic Function upon Head Up Tilt in Children with Orthostatic Intolerance
Hossam A. Shaltout, Hypertension and Vascular Res Ctr, Wake Forest Univ, Sch of Med, Winston Salem, NC; Michael S. Glock, Pediatrics-Gastroenterology, Wake Forest Univ, Sch of Med, Winston Salem, NC

P634 The Influence of Virtual Learning Environment on Therapy Adherence and on the White Coat Effect

Isabela R. Fistarol, São Camilo Univ Ctr, São Paulo, Brazil; Chao L. Wen, Dept of Telemedicine of Medical Sch Univ of São Paulo, São Paulo, Brazil; Luiz Bortolotto, Heart Inst of Medical Sch of Univ of São Paulo, São Paulo, Brazil; Margarida Vieira, Portuguese Catholic Univ, Porto of City, Portugal; Miriam Tsunemi, Faculty of Mathematic s and Statistics at the State Univ of São Paulo – UNESP, Botucatu, Brazil; Dante Giorgi, Heno F. Lopes, Heart Inst of Medical Sch of Univ of São Paulo, São Paulo, Brazil; Fernanda Consolim-Colombo, Heart Inst of Medical Sch of Univ, São Paulo, Brazil; Ivonete S. Kowalski, São Camilo Univ Ctr, São Paulo, Brazil; **Grazia Maria Guerra**, Heart Inst of Medical Sch of Univ of São Paulo and São Camilo Univ Ctr, São Paulo, Brazil

P644 Mineralocorticoid Receptor Activation May Contribute to Supine Hypertension in Patients with Primary Autonomic Failure

Amy C. Arnold, Luis E. Okamoto, Alfredo Gamboa, Cyndya A. Shibao, Bonnie K. Black, Satish R. Raj, David Robertson, Italo Biaggioni, Vanderbilt Univ Sch of Med, Nashville, TN

Poster Presentations (continued)

Diabetes, Nutrition and Obesity/ Insulin and Metabolic Syndrome

Poster Chairs:

John Hall, PhD, FAHA, University of Mississippi
Medical Center, Jackson Mississippi
Allyn Mark, MD, FAHA University Iowa, Iowa City, Iowa

- P645 Chronic Angiotensin-(1-7) Improves Whole-Body Insulin Sensitivity in High-Fat Fed Mice by Enhancing Skeletal Muscle Glucose Uptake**
Ian M. Williams, David H. Wasserman, Italo Biaggioni, **Amy C. Arnold**, Vanderbilt Univ Sch of Med, Nashville, TN
- P230 Glucagon-like Peptide-1-induced Increases in Afferent Renal Nerve Activity and Renal Sodium Excretion: Role of Trpv1**
Beihua Zhong, Donna Wang, Michigan State Univ, East Lansing, MI
- P231 High Fat Diet-induced Er Stress and Inflammation in the Kidney: Role of Trpv1-positive Afferent Renal Nerves**
Shuang-Quan Yu, **Donna Wang**, Michigan State Univ, East Lansing, MI
- P232 Dipeptidyl Peptidase-4 (DPP-4) Inhibitor, Linagliptin, Prevents Aortic Stiffening and Vascular and Cardiac Diastolic Dysfunction Caused by Western Diet Feeding in Female Mice**
Vincent G. DeMarco, Annayya Aroor, Guanghong Jia, Javad Habibi, Mona Garro, Zhe Sun, Gerald Meininger, Univ of Missouri, Columbia, MO; Thomas Klein, Boehringer Ingelheim Pharma GmbH & Co. KH, Biberach, Germany; Adam Whaley-Connell, **James Sowers**, Univ of Missouri, Columbia, MO
- P233 Sodium Glucose Transporter Type-2 (SGLT-2) Inhibitor, Empagliflozin, Improves Cardiovascular Outcomes in Female Diabetic db/db Mice Independent of Blood Pressure Reduction**
James Sowers, Annayya Aroor, Guanghong Jia, Ravi Nistala, Mona Garro, Gerald Meininger, Luis Martinez-Lemus, Univ of Missouri, Columbia, MO; Eric Mayoux, Boehringer Ingelheim Pharma GmbH & Co. KH, Biberach, Germany; Adam Whaley-Connell, Vincent G. DeMarco, Univ of Missouri, Columbia, MO
- P234 High Sodium Intake is Associated with Increased Hemoglobin A1C in Young Overweight/Obese African Americans**
Samip J. Parikh, Jigar Bhagatwala, Anas Raed, Ying Huang, Ishita Kotak, Gregory A. Harshfield, Yanbin Dong, **Haidong Zhu**, Medical Coll of Georgia, Georgia Regents Univ, Augusta, GA
- P235 Employing the DASH Diet to Treat Non-dippers: A Two-month Intervention Study**
Arjun K. Pandey, Cambridge Cardiac Care Ctr, Cambridge, ON, Canada
- P236 Alginic Acid May Not Play a Major Role in the Mechanism of Alleviating Hypertension by Dietary Saccharina Japonica in 2-kidney, 1-clip Renovascular Hypertensive Rats**
Yukiko Segawa, Saki Maruyama, Kobe Women's Univ, Suma, Kobe, Japan; Hiroko Hashimoto, Osaka Seikei Coll, Higashiyodogawa, Osaka, Japan; Tomoko Osera, **Nobutaka Kurihara**, Kobe Women's Univ, Suma, Kobe, Japan
- P237 Dysregulation of Hypothalamic mTORC1, Sympathetic Nerve Activity and Vascular Reactivity in the Hypertensive Obese Prone Rats**
Christine L. Oltman, Kenjiro Muta, Brian L. Dake, Donald A. Morgan, **Kamal Rahmouni**, Univ of Iowa, Iowa City, IA
- P238 High Fat Diet-induced Obesity Disrupts Vascular Homeostasis in Both Kidney and Retina: Role of Epoxyeicosatrienoic Acids**
Ahmed A. Elmarakby, Mohamed A. Katary, Islam N. Mohamed, Azza B. El-Remessy, Georgia Regents Univ, Augusta, GA
- P239 Could Uric Acid Levels Predict Success in Chronic Weight Loss?**
Kazuko Masuo, Baker IDI Heart & Diabetes Inst, Melbourne, Victoria, Australia
- P240 Gender Differences in the Association of Adiponectin and BMI in a Rural Cohort of African Americans**
Mildred A. Pointer, Lakeesha Bridges, Candace Wells, David Bolin, Natasha Greene, North Carolina Central Univ, Durham, NC
- P241 Uric Acid-Induced Adipocyte Dysfunction is Attenuated by HO-1 Upregulation: Potential Role of Antioxidant Therapy to Target Obesity**
Nitin Puri, Univ of Toledo Coll of Med, Toledo, OH; Komal Sodhi, Morghan Getty, Zeid Khitan, Marshall Univ Sch of Med, Huntington, WV
- P635 Improvement of Cardiovascular Outcomes in Diabetic Rats by a Novel Angiotensin II Receptor Peptide Agonist**
Lakshmi Pulakat, Univ of Missouri, Columbia, MO; Terry Carmack, Harry S. Truman VA Memorial Hosp, Columbia, MO; Vincent G. DeMarco, Sivakumar Ardhanari, Senthil A. Kumar, Univ of Missouri, Columbia, MO
- P636 Sex Differences in Cardioprotective AT2R Expression in Diabetic Rats and Its Correlation with Myocardial Damage**
Kelly Lum-Naihe, Abuzar Mahmood, Jamal Bajwa, Harry S. Truman VA Hosp, Columbia, MO; Craig A. Emter, Univ of Missouri, Columbia, MO; **Lakshmi Pulakat**, Harry S. Truman VA Hosp, Columbia, MO

P637 Pigment Epithelium Derived Factor (PEDF) Deficiency Increases Blood Pressure And Accentuates Glomerular Pathology In Diabetic Mice
Minghao Ye, Northwestern Univ, Div of Nephrology, Chicago, IL; Olga Volpert, Northwestern Univ, Dept of Urology, Chicago, IL; Jan Wysocki, Daniel Battle, Northwestern Univ, Div of Nephrology, Chicago, IL

P638 Investigating Gene Pleiotropy in the Metabolic Syndrome in Lyon Hypertensive Rats
Anne E. Kwitek, Janette Pettus, Jessica Jakoubek, John Ma, Univ of Iowa, Iowa City, IA

Salt and Hypertension

Poster Chairs:

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

P242 Role of Human Renal Proximal Tubule Sodium Bicarbonate Cotransporter NBCe2 (SLC4A5) in Salt Sensitivity of Blood Pressure
John J. Gildea, Julia M. Carlson, Tran T. Hanh, Dora Bigler Wang, Peng Xu, Branden A. Kemp, Christophe J. Langouet-Astrie, Helen E. McGrath, Robert M. Carey, Univ of Virginia, Charlottesville, VA; Pedro A. Jose, Univ of Maryland Sch of Med, Baltimore, MD; Robin A. Felder, Univ of Virginia, Charlottesville, VA

P243 A Maternal High Salt Diet During Pregnancy and Lactation Affects Offspring Cardiac Function
Satomi Kagota, Kana Maruyama, Sch of Pharmacy and Pharmaceutical Sciences, Mukogawa Women's Univ, Nishinomiya, Japan; Bruce N. Van Vliet, Faculty of Med, Memorial Univ, St. John's, NL, Canada; Hirokazu Wakuda, Kazumasa Shinozuka, Sch of Pharmacy and Pharmaceutical Sciences, Mukogawa Women's Univ, Nishinomiya, Japan

P244 Role of the Na-H Exchanger Regulatory Factor 1 (NHERF1) in Hypertension of Aging Animals
 Sathnur Pushpakumar, Corey J. Ketchem, Michelle T. Barati, Utpal Sen, Univ of Louisville, Louisville, KY; Pedro J. Jose, Edward J. Weinman, Univ of Maryland, Baltimore, MD; Eleanor D. Lederer, **Syed J. Khundmiri**, Univ of Louisville, Louisville, KY

P245 High-salt Diet Induces Catabolic Urea Formation and Muscle Wasting to Enable Renal Salt Concentration
Kento Kitada, Yahua Zhang, Vanderbilt Univ, Nashville, TN; Patrick Neubert, Friedrich-Alexander-Univ, Erlangen-Nürnberg, Germany; Tetyana Pedchenko, Louise Lantier, David Wasserman, Friedrich C. Luft, Jens Titze, Vanderbilt Univ, Nashville, TN

P246 Salt-sensitivity of Angiogenesis Inhibition-induced Blood Pressure (BP) Rise: Role of Interstitial Sodium Accumulation?
Stephanie Lankhorst, David Severs, Dpt. of Internal Med, Erasmus Medical Ctr, Rotterdam, Netherlands; Lajos Marko, Natalia Rakova, Experimental and Clinical Res Ctr, Charité Medical Faculty and Max-Delbrück Ctr for Molecular Med, Berlin, Germany; Vladimir A. Giménez-Rivera, Dpt. of Dermatology and Allergy, Allergy Ctr Charité, Berlin, Germany; Jens Titze, Dept of Clinical Pharmacology, Vanderbilt Univ Sch of Med, Nashville, TN; Dominik N. Müller, Experimental and Clinical Res Ctr, Charité Medical Faculty and Max-Delbrück Ctr for Molecular Med, Berlin, Germany; A. H. Danser, Anton van den Meiracker, Dpt. of Internal Med, Erasmus Medical Ctr, Rotterdam, Netherlands

P247 Tumor Necrosis Factor-alpha Receptors (Type 1 & Type 2) are Differentially Expressed in Renal Tissues During Chronic Dietary Intake of High Salt and Angiotensin II Treatment
Dewan S. Majid, Minolfa C. Prieto, Alexander Castillo, Tulane Univ Sch of Med, New Orleans, LA

P248 Changes in Dipping Pattern of Blood Pressure During the Progression of Renal Injury in Dahl Salt-sensitive Hypertensive Rats
Akira Nishiyama, Yoshihide Fujisawa, Asadur Rahman, Asadur Rahman, Daisuke Nakano, Hirofumi Hitomi, Abu Sufiun, Kagawa Univ Medical Sch, Kagawa, Japan

P249 Central Nervous System Control of Plasma Aldosterone and Endogenous Ouabain in Angiotensin II-Salt Hypertension
 Jiao Lu, **Hong-Wei Wang**, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Marzieh Keshtkar-Jahromi, John M. Hamlyn, Univ of Maryland Baltimore, Baltimore, MD; Frans H. H. Leenen, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

P250 Central Mechanisms Mediating Angiotensin II-Salt Hypertension in Rats
 Jiao Lu, **Hong-Wei Wang**, Monir Ahmad, Frans H. H. Leenen, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

P639 Attenuation of Renal Inner Medullary Circadian Clock Gene Expression in Response to High Salt Intake is Dependent on the Endothelin B Receptor
Joshua S. Speed, Kelly A. Hyndman, Malgorzata Kasztan, Jermaine G. Johnston, Martin E. Young, Jennifer S. Pollock, David M. Pollock, The Univ of Alabama at Birmingham, Birmingham, AL

Poster Presentations (continued)

- P640** **Endogenous microRNAs in Human Microvascular Endothelial Cells Regulate mRNAs Encoded by Hypertension-Related Genes and Are Functionally Important**
Alison J. Kriegel, Maria Angeles Baker, Yong Liu, Pengyuan Liu, Allen W. Cowley Jr., Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- P641** **Angiotensin Receptor Blocker Improves Pressure Natriuresis in Select African-Americans**
 Gregory A. Harshfield, Georgia Regents Univ, Augusta, GA; Coral Hanevold, Univ of Washington, Seattle, WA; **Deborah Stewart**, Yanbin Dong, Sunil Mathur, Georgia Regents Univ, Augusta, GA
- Vascular Remodeling and Dysfunction/Endothelin Factors**
- Poster Chairs:**
 R. Clinton Webb, PhD, FAHA, Medical College of Georgia, Augusta, Georgia
 TBD
- P251** **3-hydroxy-3-methylglutaryl-coenzyme A reductase Inhibition Reduces Intimal Neovascularization and Plaque Growth in Apolipoprotein E-Deficient Mice**
Xian Wu Cheng, Lina Hu, Nagoya Univ Graduate Sch of Med, Nagoya, China; Aiko Inoue, Hongxian Wu, Nagoya Univ Graduate Sch of Med, Nagoya, Japan; Haiying Jiang, Xiang Li, Yanbian Univ Hosp, Yanji, China; Kenji Okumura, Masafumi Kuzuya, Nagoya Univ Graduate Sch of Med, Nagoya, Japan
- P252** **Effect of Maternal Diabetes on Fetal Programming of Vascular Remodeling Mechanisms in Adult Rats**
 Abdallah Dib, Jennifer Bourreau, Laurent Loufrani, Daniel Henrion, **Celine Fassot**, UMR CNRS 6214 INSERM U1083, Angers, France
- P253** **Angiotensin Converting Enzyme Inhibition vs. Angiotensin II Receptor Blockade in Marfan Mouse: Role of Bradykinin**
Jorge L. Gamboa, Kevin D. Hill, Susan M. Fowler, Valentina Kon, Vanderbilt Univ, Nashville, TN; Harry C. Dietz, Johns Hopkins Univ, Baltimore, MD; Nancy J. Brown, Vanderbilt Univ, Nashville, TN
- P254** **Hypertension: A Proposed Mechanistic Pathway for Arterial System Remodeling**
Otelio S. Randall, Howard Univ Hosp, Washington, DC; Dexter Lee, Tamrat Retta, Georges Haddad, Muluemebet Ketete, John Kwagyan, Shichen Xu, Howard Univ, Washington, DC
- P255** **Age and Structural Alterations in Subcutaneous Small Resistance Arteries of Hypertensive Patients**
 Carolina De Ciuceis, Claudia Rossini, Claudia Agabiti Rosei, Enzo Porteri, Alice Gavazzi, Paola Pileri, Stefano Caletti, Enrico Agabiti Rosei, **Damiano Rizzoni**, Univ of Brescia, Dept of Clinical and Experimental Sciences, Brescia, Italy
- P256** **Structural Alterations of Subcutaneous Small Resistance Arteries in Resistant Hypertension**
 Carolina De Ciuceis, Claudia Rossini, Maria Lorenza Muiesan, Massimo Salvetti, Enzo Porteri, Alice Gavazzi, Anna Paini, Paola Pileri, Enrico Agabiti Rosei, **Damiano Rizzoni**, Univ of Brescia, Dept of Clinical and Experimental Sciences, Brescia, Italy
- P257** **High Fat Diet Induces Metabolic Syndrome-Like Phenotype Associated with Adverse Micro- and Macro-Vascular Remodeling**
Aaron J. Trask, The Res Inst at Nationwide Children's Hosp, Columbus, OH
- P258** **Essential Hypertension Induces Early Functional and Structural Vascular Aging in Small Resistance Arteries**
Agostino Virdis, Rosa Maria Bruno, Emiliano Duranti, Stefano Taddei, Univ of Pisa, Pisa, Italy
- P259** **Endothelial Acid Sphingomyelinase Gene Determines Inflammation Activation and Atherosclerotic Lesions in Carotid Arteries During Hypercholesterolemia**
Min Xia, Krishna M. Bioni, Yang Chen, Xiang Li, Ashley L. Pitzer, Yang Zhang, Pin-Lan Li, Virginia Commonwealth Univ, Richmond, VA
- P642** **Endothelin-1 on Derangements in Stress-Induced Pressure Natriuresis**
Shreya Mathur, Harvard Univ, Cambridge, MA; David M. Pollock, Jennifer S. Pollock, Univ of Alabama at Birmingham, Birmingham, AL; Gregory A. Harshfield, Georgia Regents Univ, Augusta, GA
- P643** **Proliferative Potential of Perivascular Adipose Tissue Stromal Vascular Cells Is Dependent on Anatomical Site**
G. Andres Contreras, Kyan Thelen, Nadia Ayala-Lopez, Stephanie W. Watts, Michigan State Univ, East Lansing, MI

Author Index

- A. Abdel-Rahman, A.P609
 Abais, J.007
 Abassi, Z.P177
 Abboud, F.P053
 Abboud, F. M.072
 AbouAlaiwi, W.108, P101, **P260**
 Abraham, N. G.015
 Abrahamowicz, M.P075, P181
 Abu Ahmad, W.P177
 Abumrad, N.089
 Adam, C.P159
 Adler, G. K.MP11
 Afroze, S. H.**P088**, P173, P174
 Agabiti Rosei, C.P255
 Agabiti Rosei, E.024, P255, P256
 Agasthi, P.**P049**, **P050**
 Agbor, L. N.**065**
 Ahmad, M.P142, P192, P250
 Ahmad, S.078, MP04, P171, **P205**, P603
 Ahmari, N.029, P057
 Ahzdahan, E.071
 Aigner, C.MP12, P209
 Aisicovich, M.P141
 Ait-Aissa, K.**P005**
 Akao, K.P166
 Akinseye, O. A.P155
 Alaisami, R. N.011
 Alawi, L.P208
 Aldstadt, J.P219
 Alencar, A.P171
 Alenina, N.P110
 Alexander, B. T.P029
 Al Ghouleh, I.**096**, 123, P131, P132
 Alhenc-Gelas, F.P159
 Ali, Q.**061**
 Allemann, Y.092
 Allen, S. R.P088, P173
 Almeida, J. F. Q.**P144**
 Aloor, S.P049, P050
 Alshahrani, S.**115**
 Altara, R.110
 Amann, K.P220, P607
 Amaral, J. H.096
 Amaral, J. H.123
 Amaral, L. M.**076**, P091
 Amaral, L. M.P092
 Amari, Y.P146
 Ambale-Venkatesh, B.P022
 Amin, M.**P016**, P023
 Anand, N.P156
 Anderson, J.P024
 Ando, T.MP03, P146
 Andrade, D. O.P228
 Andrade, M. C.**P104**
 Anegawa, T.P227
 Angajala, A.P080
 Aoki, Y.P227
 Aragão, D. S.P104
 Arck, P. C.042
 Ardhanari, S.P635
 Ares, G.104
 Ariel, I.P177
 Arita, D.P032
 Armando, I.098, 100, 141, **P180**, P187
 Armario, P.093
 Arnold, A. C.089, **P644**, **P645**
 Arnold, L.P028
 Aroor, A.112, 136, P070, **P172**, **P199**, P200, P213, P217, P232, P233
 Aroor, A.131
 Arrabito, E.024
 Asghar, M.P087
 Ashangari, C.**P064**, **P065**, **P066**
 Asico, L.100, P187
 Asico, L. D.098
 Asirvatham-Jeyaraj, N.**P051**
 Attaran, S.123
 Austin, C.P130
 Ayala-Lopez, N.**P626**, P643
 Azad, H. A.P646
 Azar, S. H.047
 Aziz, B.P183
 Aziz, N.P614
 Azushima, K.P202
 Babaeva, E.P194
 Baban, B.P054
 Backstrom, M. A.P029
 Bader, M.126, MP04, P110, P175
 Bai, X.068
 Baillie, G. S.017
 Bajwa, J.P622, P636
 Baker, H. E.MP16
 Baker, M. A.P640
 Bakris, G.P602
 Balamurugan, K.P067
 Balogh, A.026
 Bandy, A. A.P628
 Banegas, J. R.P148
 Banti, R. S.P104
 Barati, M. T.P244
 Barbaro, N. R.105
 Barbaro, N. R.051
 Barchiesi, F.P041, P098
 Barhoumi, T.P034, P035, **P601**, P617, P625
 Barinas-Mitchell, E.P137
 Barnes, A. P.P615
 Barnett, J. L.113
 Baron, M.P048
 Barone, S.115
 Barrera-Chimal, J.**133**
 Barrett, P. Q.MP09
 Bartolomaeus, H.026
 Bartolomucci, A.P051
 Barton, M.P607
 Barzilai, B.P004
 Bassi, G. S.P184
 Batchu, S. N.005, 073
 Battle, D.016, P629, P637
 Baudrand, R.MP11
 Bayliss, D. A.MP09
 Beeram, M. R.P174
 Beige, J.P152
 Beitelshes, A.100
 Belin de Chantemèle, E. J.**132**
 Bell, B. B.**053**
 Bellner, L.015
 Belloni, A.P163
 Beltz, T. G.P193
 Belzer, V.P177
 Bennett, D.P150
 Bennett, S.P181
 Bensal, N.P022
 Berkowitz, D. E.030
 Berman, L.P602
 Bernard, S.P028
 Bernardes, N.**P078**
 Bernhagen, J.042
 Bernstein, E. A.019
 Bernstein, K. E.019
 Bernstein, K. E.051
 Bersi, M. R.070
 Bertin, T.050
 Betts, D. H.P005
 Beyer, A. M.P005
 Beyer, A. M.P121
 Bhagatwala, J.P234
 Bhalla, V.091
 Bi, J.P169
 Biaggioni, I.089, P644, P645
 Biancardi, V. C.**032**
 Bianchi, F.P160
 Bidwell, G. L.129
 Bienes-Martinez, R.123
 Bigler Wang, D.087, 116, P242
 Billings, F. T.094
 Bioni, K. M.P259
 Bissig, K.-D.050
 Black, B. K.P644
 Blaustein, M. P.**P145**
 Blazer-Yost, B. L.011
 Bluemke, D. A.P022
 Bobadilla, N. A.133
 Bobik, A.074
 Boini, K. M.**P017**
 Bokuda, K.MP03, P146
 Bolin, D.P210, P240
 Bonifácio, M.MP13
 Bonneau, D.MP06
 Booz, G.110
 Bortolotto, L.P634
 Bostick, B.**P070**
 Bouby, N.P159
 Bounds, K. R.P178, P183
 Bounds, K. R.**P612**
 Bourgeois, C.P032
 Bourland, J.P149
 Bourreau, J.P252
 Bowers, P.P080
 Bradford, C. N.**P080**, **P630**
 Brands, M. W.011
 Brandt, M.P126
 Brateanu, A.P004
 Braun, L. T.P229
 Brdar, M.P006
 Breault, D. T.MP09
 Brenner, R.092
 Breyer, M. D.MP16
 Breyer, R. M.P127
 Bridges, L.P210, P240
 Brinkmann, J.P152
 Brito, J. d.P078
 Brooks, H. L.P618
 Brosnihan, B.P175
 Brosnihan, K.126
 Brown, N. J.094
 Brown, N. J.P026
 Brown, N. J.P253
 Bruce, E.**P105**
 Bruno, R.P258
 Bucala, R.042
 Buccella, V.P163

Author Index (continued)

Bugay, V.	021	Chen, D.	P646	Cuevas, S.	098 , 100, P187
Bulmer, L.	P018	Chen, F.	P600	Cugino, D.	P157
Burbach, B.	P051	Chen, H.	P219	Cui, L.	P158
Burchmore, R. J.	P096	Chen, K.-C.	111	Culver, S.	P099, P100
Bursill, C.	P002	Chen, L.	P145	Cummings, B. P.	009
Bursztyn, M.	P177	Chen, Q.-H.	138	Cunha, T. M.	P184
Busceti, C.	P160	Chen, R.	023	Cunningham, M. W.	P089, P090 , P091
Butler, S.	039, 128	Chen, R.	P631	Cunningham, M. W.	P092
Butler, S. D.	009, 031	Chen, W.	051, P616	Cunningham Jr., M. W.	076
Butler, S. D.	086	Chen, Y.	P259	Currie, G. E.	P214
Buttler, L.	034	Cheng, C.	078, P205	Cutrone, A.	003
Byun, J.	025	Cheng, X.	P042, P044	Czajkowski, S.	P181
Cabral, P.	P103	Cheng, X.	P158 , P251	Dababneh, E.	P002
Caceres, P.	104	Cheng, Z.	138	Daiber, A.	P126
Caillon, A.	P617	Chenna, A.	P049, P050	Dake, B. L.	P237
Caletti, S.	P255	Chernyavskiy, I.	P052	Dale, B. L.	051
Calò, L.	P163	Chianca, D. A.	P204	Dalmasso, C.	P038, P039, P040, P081
Camara, A. K. S.	P005	Chiasson, V. L.	P178, P183	Daniel, C.	P607
Campagnole-Santos, M. J.	P203	Chiasson, V. L.	P612	Daniel, J. M.	P043
Campbell, N.	P089	Chinta, S. R.	P049	Daniels, G.	038
Cannon, J.	132	Cho, H.-J.	P119, P120	Danser, A. H. J.	P246
Cantalupo, A.	067	Choi, J.-I.	P119 , P120	Danser, J. A. H.	P093
Capdevila, J.	015, 064	Choi, L.	089	Danziger, R. S.	P219
Carey, R. M.	116, P242	Chong, C.	P117	Darios, E.	MP07, P196
Carletti, R.	024	Chou, C.-L.	P168	da Silva, A. A.	012, 085, P076
Carlson, J. M.	P242	Choudhury, S.	P173	da Silva, J.	P171
Carlson, M.	116	Chrissobolis, S.	P106, P182	Dasinger, J. H.	P029
Carmack, T.	P635	Christopher, W. S.	060	Dautaj, E.	067
Carmichael, C. Y.	035	Chu, C.	P124	Davenport, A.	P624
Carneiro, F. S.	014	Chu, P.-L.	102	Davisson, R.	128
Carnevale, D.	003 , P157	Chung, A.	031	Davisson, R. L.	009, 031
Carnevale, L.	P157	Cicha, M. Z.	072	Davisson, R. L.	039, 086
Caroccia, B.	P163	Cifuentes-Pagano, E.	P131, P132	Dayton, A.	044
Carr, J.	P149	Claffin, K. E.	010	De Angelis, K.	P055
Carretero, O. A.	118, P011	Claffin, K. E.	P060	De Angelis, K.	P078
Carrillo-Sepulveda, M. A.	P139	Clarà, A.	093	De Angelis, K.	P079
Carter, A. J.	P029	Claxton, J.	046	Dear, A.	P006
Carter, C. S.	P105	Co, M. A. M.	P174	Dechend, R.	026, 042, 125, 126, 127, P090, P091, P092
Carter, J. R.	036	Coelho, S. C.	P062	Dechend, R.	P175
Carvajal, J.	029	Coffman, T.	059	De Ciuzeis, C.	024, P255, P256
Casarini, D. E.	P104	Coffman, T. M.	P646	De Kloet, A. D.	P621
Case, A. J.	120	Cogle, C.	P112	De la Cruz, J. J.	P148
Cassis, L.	P114	Cohen, A.	015	de la Sierra, A.	093, P148
Castillo, A.	P247	Cohen, E. P.	MP15	Delles, C.	P214
Castro, C. H.	017	Cohn, J.	P147	Dell'Italia, L. J.	078
Catov, J. M.	P611	Cole-Jeffrey, C. T.	027	DeMarco, V.	P213
Caulfield, M.	P048	Colin, W. O.	P022	DeMarco, V.	P070, P200, P217
Cechova, S.	004, 102, 121 , P150	Collier, W.	P080	DeMarco, V. G.	112, P172, P199, P232, P233
Celedonio, J. E.	089	Conley, S. M.	P017	DeMarco, V. G.	P635
Ceroni, A.	034	Consolim-Colombo, F.	P634	DeMarco, V.	131
Chade, A. R.	049	Consolim-Colombo, F. M.	P055	De Mey, J. G. R.	P143
Chae, C.	P120	Conti, F. F.	P078	De Miguel, C.	008 , P619
Chakalova, T.	P025	Contreras, G.	P643	De-Moraes, W. M. A. M.	P055
Chambon, P.	P200	Cook, A. K.	P056	Denton, K.	P608
Chan, C.	074	Cooper, M. A.	P106	Denton, K. M.	P018
Chan, C. T.	P182	Cornelius, D. C.	037 , 076, P089, P091	Desai, A.	P201
Chan, F.	102, 121	Cornelius, D. C.	P092	Desposito, D.	P159
Chang, F.	P150	Cortez-Cooper, M.	132	Devila-Molina, M. A.	P129
Chapleau, M. W.	072	Cosenso-Martin, L. N.	P228	Devor, E.	P176
Chapleau, M. W.	P053	Costantine, M. M.	P088	Devor, E. J.	P094
Chaplin, D.	P112	Cotugno, M.	P160	Dey, S. K.	P067
Chapp, A. D.	138	Couillard, A.	P124	Dhanasekaran, M.	P080
Chappell, M.	P169	Cowley, A. W.	044 , 103	Dhande, I. S.	P012
Chappell, M. C.	020, 081	Cowley, A. W.	P640	Dhingra, R.	P024
Chatterjee, P.	P612	Cravo, S. L.	P058	Diao, Z.	P187
Chaturvedi, P.	P133	Crawford, K.	P108	Dias, D. P. M.	P184
Chen, A.	P192	Crooke, R. M.	P605		
Chen, B.	P631	Crutsinger, C. P.	P612		

Author Index (continued)

Dias, D.	P079	Faraci, F. M.	P123	Garro, M.	112, P070, P172, P199,
Dias, D. d.	P078	Fardella, V.	.003		P213, P217, P232, P233
Diaz Diaz, A. C.	P628	Fassina, A.	P211	Garvin, J.	P103
Dib, A.	P252	Fassot, C.	MP06, P252	Garvin, J. L.	124
Di Castro, S.	P160	Faulkner, J. L.	.076, P091	Garvin, J.	118
Diedrich, A.	P152	Faulkner, J. L.	P092	Garza, A. E.	MP11
Diep, H.	074, P106, P182	Faura, A.	.093	Garza, D.	P602
Dietz, H. C.	P253	Felder, R. B.	P193	Gaspari, T.	P006
Di Gioia, C.	.024	Felder, R.	.100	Gassman, J.	P632
Dikalov, S.	105, 119	Felder, R. A.	.087, 116 , P180, P242	Gaudet, D.	P075, P181
Dikalova, A. E.	119	Feng, Y.	.023, 045, 054, 095	Gauster, M.	.042
Di Lorenzo, A.	.067	Feraco, A.	P071	Gavazzi, A.	P255, P256
Dinh, Q. N.	P106, P182	Ferens, D.	.074, P182	Ge, Y.	063 , MP05, MP14
Ditting, T.	P220	Ferland, G.	P136	Gehr, T. W.	P017
Diz, D. I.	081, P069, P149, P189	Fernandes, T.	.088	George, E. M.	129
Dobbs, J.	P080	Ferrario, C. M.	.078	Getty, M.	P218 , P241
do Carmo, J. M.	012, 085	Ferrario, C. M.	MP04	Geurts, A. M.	.044, 113, MP14
do Carmo, J. M.	110, P076	Ferrario, C. M.	P171, P205, P603	Giani, J. F.	019
Dodd, B.	112, P217	Ferreira, C. B.	P058	Gibbs, J.	.090
Domenig, O.	MP12, P209	Ferreira, J. B.	P055	Gigliotti, J.	004
Dominiczak, A. F.	P153	Fessel, J. P.	.119	Gigliotti, J. C.	102
Donato, T.	P005	Fiege, J.	P051	Gilani, A.	064
Donekal, S.	P022	Figueroa, J. P.	.081	Gilbert, J. S.	.040
Dong, Y.	P234, P641	Filipaik, W.	P042	Gildea, J.	P180
Doris, P. A.	P012	Filipiak, W.	P044	Gildea, J. J.	087 , 116, P242
Dorrance, A. M.	P015	Findlay, J. E.	.017	Gillespie, D. G.	P197
Drever, N.	P088, P173, P174	Fink, G. D.	P154	Gillis, E. E.	049
Drummond, G.	.074	Fish, B.	MP15	Giménez-Rivera, V. A.	P246
Drummond, G. R.	P106, P182	Fisher, C.	P015	Gioco, F.	P163, P211
Drummond, H. A.	.127	Fistarl, I. R. B.	P634	Giorgi, D.	P634
Dubey, R. K.	P041, P098	Fleener, D.	.041	Girouard, H.	P136
Duggan, A. D.	.011	Florea, N.	P147	Givimnai, S.	P008
Dumasius, A.	P137	Flores-Muñoz, M.	MP02, P109	Gladwin, M.	.107
Duprez, D.	P147	Flues, K.	P055	Glenn, J.	P080
Duraiswami, R.	P614	Folchert, M. D.	P061	Glock, M. S.	P633
Duranti, E.	P258	Fonkoue, I. T.	036	Gnecco, J.	.101
Duval, S.	P147	Forrester, S. J.	P108, P122	Godoy, M. F.	P228
Easton, L. K.	P608	Fortunato, J. E.	P069	Goglia, R.	P223
Ebben, J. D.	P121	Foss, J.	P051	Gogulamudi, V.	P032
Edwards, G.	P130	Foss, J. D.	.051	Goleva, S. B.	P082
Eguchi, K.	P122	Foss, J. D.	105, P616	Golic, M.	.042, 125
Eguchi, S.	P108, P122, P186	Fowell, D. J.	.005	Gomez, J.	018
Ehlken, M.	P126	Fowler, S. M.	P253	Gomez, R.	MP01
Elased, K.	P208	Franceschini, N.	.102	Gomez-Sanchez, C.	134
Elfarra, J.	.037, 076	Fraulob-Aquino, J. C.	P062	Gomez-Sanchez, C. E.	MP10, P211
Elkahloun, A. G.	P161	Fraulob-Aquino, J.	P625	Gomez-Sanchez, E.	134
Elliot, K. J.	P108, P122	Fraulob-Aquino, J.	P601	Goncharov, D. A.	.096
Ellison, D. H.	P615	Fredette, N. C.	P607	Goncharova, E.	P131
Elmarakby, A. A.	P031	Fredgatt, M.	P143	Goncharova, E. A.	.096, P132
Elmarakby, A. A.	P238	Freeman, J. N.	.085	Gong, M.	.084
El Moghrabi, S.	133	Fuchs, S.	.019	Gong, M. C.	P225
El Moghrabi, S.	P071	Fujisawa, Y.	P248	Gonzalez, F.	P035
Elmqvist, B. J.	.040	Fukuda, K.	P227	Gonzalez-Vicente, A.	P103
El-Remessy, A. B.	P238	Fukuda, T.	P165	Gonzalez-Villalobos, R. A.	.019
Emberesh, S.	P208	Fukumoto, Y.	P227	Gordeuk, V.	.107
Emter, C. A.	P636	Funder, J.	P212	Gornitsky, J.	P034, P035
Erdbruegger, U.	P150	Gaglione, R. T.	.116	Gorostidi, M.	P148
Eren, D.	.082, P107	Gaidarova, D.	P025	Gospodinov, K.	P025
Ergul, A.	P030	Galis, Z.	P170	Gouloupoulou, S.	P054
Evans, L. C.	103	Gamboa, A.	P644	Gradinaru, I.	P194
Everson-Rose, S. A.	P137	Gamboa, J. L.	119, P253	Graham, D.	.097, 099, MP08
Fadel, F.	133	García, S. I.	P141	Graham, M. J.	P605
Falck, J.	.015	Garcia, V.	.015	Granger, J. P.	.038, 127, P095, P613
Falck, J. R.	.064	Garcia, V. G.	P129	Grave, K.	P135
Fallo, F.	P071	Garibay, D.	.009	Greene, N.	P210, P240
Familtseva, A.	P133	Garrett, M. R.	.049	Gregório, M. L.	P228
Fan, F.	063, 127, MP05, MP14 , P610	Garrett, M. R.	P020	Gregory-Love, L.	.089
Fang, E.	P158			Grenier, C.	MP06

Author Index (continued)

Griendling, K. K.	060	Head, G. A.	P608	Ibrahim, T.	P091, P092
Griffin, G.	P080, P630	Heinlein, S.	P220	Ichihara, A.	021, 023, MP03, P146
Griffiths, R.	059	Hendgen-Cotta, U.	P135	Idris Khodja, N.	P035
Grillea, G.	P157	Henrion, D.	MP06, P252	Idris Khodja, N.	P034
Grimaud, L.	MP06	Henson, E.	104, 142	Idris-Khodja, N.	P601
Groban, L.	078, P149, P171, P205, P603	Hernandez, C.	P030	Igase, M.	P164
Grobe, J.	083, P176	Herse, F.	042 , 125	Igreja, B.	MP13, P185, P224
Grobe, J. L.	010	Heuer, J. G.	MP16	Ilatovskaya, D. V.	113
Grobe, J. L.	041, P003, P060, P061, P072, P094	Heusser, K.	P152	Imig, J. D.	MP15
Gros, R.	P215	Heyward, C.	039	Imthurn, B.	P041, P098
Gross, C.	P602	Hickey, M. J.	002	Inoue, A.	P251
Guagliardo, N. A.	MP09	Hicks, K.	P210	Inscho, E. W.	P056
Guatimosim, S.	P140	Hilgers, K. F.	P220	Intapad, S.	130 , P029
Guerra, G. M.	P634	Hill, K. D.	P253	Irigoyen, M. C.	P055
Guerzoni, E.	P163	Hilliard, L. M.	P018	Irigoyen, M.-C.	P078, P079
Guidolin, D.	P163	Hindermann, M.	P220	Irsik, D. L.	011
Guillory, D.	P020	Hirooka, Y.	P620	Isenberg, J. S.	123
Guo, A.	P631	Hirose, T.	P207	Ishida, A.	P059
Guo, D. F.	083	Hitomi, H.	P248	Isom, R.	091
Guo, D.	P074	Hla, T.	067	Itani, H. A.	051
Guo, F.	P193	Ho, D. H.	008	Itani, H. A.	070, 119, P616
Guo, Z.	084, P225	Ho, T.	093	Ito, D.	P063
Gurley, S. B.	059, 066, P646	Hobbs, A.	P048	Ito, O.	P063, P115, P116
Guterman, D. D.	P005	Hockenberry, J.	P121	Ito, S.	135, MP10, P166
Guzzo, D.	028	Hoffert, J. D.	046	Ito, S.	P077
Guzzo, D. S.	080	Hoke, L.	P147	Ivanov, A.	P013
Gwathmey, T. M.	020	Hollenberg, S. M.	P137	Iwakura, Y.	135 , MP10
Haase, N.	042, 125	Holman, D.	P156	Iwamoto, Y.	P014
Habibi, J.	112 , 131, 136, P070, P172, P199, P213, P217 , P232	Hong, J.	P631	Iwashima, Y.	P165
Haddad, G.	P254	Hong, N.	P103	Iwmoto, Y.	P227
Haertling, D.	P200	Hood, K. Y.	017 , 097, P073, P083	Izsvak, Z.	125
Hafez, M.	P156	Hoover, R. S.	101	Jäckel, S.	P126
Hafko, R.	P161	Hopkins, L.	P201	Jackson, C.	P630
Haku, S.	P202	Hori, D.	030	Jackson, E. K.	P197
Halberg, F.	047	Horio, T.	P165	Jackson, W. F.	P015
Hall, J. E.	012, 085, P076	Horowitz, A.	028	Jacob, H.	044
Haller, H.	P152	Horwath, J. A.	086	Jacob, H. J.	113
Hamid, S. E.	P066	Hossain, M.	108, P260	Jaffe, I. Z.	112
Hamlyn, J. M.	P145, P249	Hossain Saad, Z.	P101	Jaffe, I.	131
Han, F.	P180	Hou, J.-Y.	P009	Jafri, F.	P628
Han, J.	114	Hou, T.	084	Jain, S.	082, P046, P107
Han, R.	P051	Howlett, A. C.	P189	Jaisser, F.	133, P071
Han, X.	P158	Hristov, M.	P025	Jakoubek, J.	P638
Hanevold, C.	P641	Hu, C.	P123 , P128	Jala, V.	025
Hanh, T. T.	P242	Hu, G.	P063 , P115, P116	James, C.	P025
Harder, D. R.	MP14	Hu, J.	137	Jang, J.	P119
Hardigan, T.	P030	Hu, L.	P251	Janic, B.	118
Haribabu, B.	025	Huang, B. S.	P192	Janssen, I.	P137
Haritha, V.	P614	Huang, Y.	P234	Jardine, A. G.	P214
Harlan, S. M.	MP16	Hubbard, J.	P156	Jaykumar, A.	104
Harmon, A. C.	P092	Huber, M. J.	138	Jenkins, C.	099, MP08
Harris, A.	P038, P039, P081	Huby, A.-C.	132	Jensen, D. M.	P124
Harrison, D. G.	006, 051	Hughson, A.	005	Jesus, I. C.	P140
Harrison, D. G.	070, 105, 119, 140, P616	Humphrey, J. D.	070	Jhamb, M.	P632
Harshfield, G. A.	P234, P606, P641, P642	Hung, C.-L.	P009	Ji, H.	022, P027
Haruhara, K.	P202	Hung, T.-C.	P009	Jia, G.	112, 131 , 136, P070, P172, P199, P200, P217, P232, P233
Harvey, A.	014, 097	Hunter, I.	P129	Jiang, H.	P158, P251
Harvey, A. P.	P083	Hunter, S. K.	041	Jiang, K.	117
Harwani, S.	P053	Huo, K.	P625	Jiang, M.	115
Hasan, K. M.	P068	Huppertz, B.	042	Jiang, M.	050
Hashimoto, H.	P236	Hur, J.	P119, P120	Joe, B.	025, 043, P042, P044
Hashmat, S.	007	Hurst, L.	125	Johnson, A. K.	P193
Hayashi, S.-I.	P165	Hussain, T.	P085	Johnson, A. C.	P020
Hayden, M.	P213	Hutcheson, B.	P129	Johnson, S. A.	059
Haynes, W. G.	041	Hwang, I.	P119, P120	Johnston, J. G.	P639
		Hyndman, K. A.	P639	Jones, C. I.	P218
		Iacobucci, R.	003		
		Ibeawuchi, S.-R. C.	065, P128		

Author Index (continued)

Jones, J.	098, 100	Khattab, A. M.	016, P629	Kumar, S. A.	P635
Jones, J.	P180	Khitan, Z.	P241	Kumar, V.	044
Jones, P.	P080	Kho, J.	050	Kumarasamy, S.	043
Joo, W. S.	038	Khundmiri, S. J.	P244	Kundu, S.	P008, P016
Jordan, J.	P152	Kikuchi, K.	135	Kundu, S.	P067
Jordao, M. T.	034	Kim, H.-S.	P119, P120	Kuo, J.-Y.	P009
Jose, P.	100	Kim, H.	074	Kuppusamy, M.	134
Jose, P. A.	087, 098, 116, 141, P180	Kim, J.	P005	Kurdi, M.	110
Jose, P. A.	P187	Kim, S.	029, 075 , P057	Kurihara, N.	P236
Jose, P. A.	P242	Kim, T.-W.	P119, P120	Kurth, T.	044, 103
Jose, P. J.	P244	Kimura, S.	MP03, P146	Kurts, C.	071
Jose, S.	P025	Kindell, D. G.	P046	Kussie, P.	038
Joseph, T.	P067	King-Medina, K. N.	142	Kusunoki, H.	P165
Juncos, J.	118	Kinguchi, S.	P202	Kutskill, K.	118
Jung, H.	P168	Kioeff, D. M.	P606	Kuwasako, K.	P226
Jurk, K.	P126	Kirabo, A.	051, 101, 105 , P616	Kuzuya, M.	P251
Kadam, P.	022	Kirichenko, N.	P105	Kwagyan, J.	P254
Kagota, S.	P243	Kishi, S.	P022	Kwitek, A. E.	P638
Kai, H.	P227	Kishida, M.	P165	Kwon, Y.-W.	P119, P120
Kalagiri, R. R.	P174	Kitada, K.	P245	Kyaw, T.	074
Kalani, A.	P045 , P133	Kitamoto, T.	P001	Lackner, K.	P126
Kamaladevi, A.	P067	Kitamura, K.	P206, P226	Lagrange, J.	P126
Kamat, N.	101	Kitzman, D.	P149	Lai, E.	060
Kamat, P. K.	P045	Klein, T.	P232	Lajoie, M.	P625
Kameshima, S.	P125	Klingelutz, A.	P072	LaMarca, B.	037, 076, P089, P090, P091, P092
Kamide, K.	P165	Knepper, M.	P168	LaMarca, B. B.	127
Kanaoka, T.	P202	Knepper, M. A.	046	Lamb, F.	P127
Kanashiro, A.	P184	Knorr, M.	P126	Landa, M. S.	P141
Kang, J.	P119, P120	Knot, H.	P604	Langouet-Astrie, C. J.	P242
Kang, J.-A.	P120	Knupp, H.	123	Lankhorst, S.	P246
Kangussu, L. M.	P203	Ko, B.	101	Lantier, L.	P245
Kantorovich, S.	P156	Ko, K. A.	073	Larson, R. A.	138
Kanwar, Y.	016	Kobayashi, R.	P202	Lastra, G.	136 , P200
Karas, R.	P200	Kobayashi, Y.	P138	Lawson, M. J.	081
Karbach, S. H.	P126	Kohan, D. E.	021, 023	Lazar, J.	044
Karumanchi, S. A.	038	Kohara, K.	P164	Lazartigues, E.	033, P113
Kassi, M.	P153	Kohzuki, M.	P063, P115, P116	Le, T.	004
Kasztan, M.	P639	Koka, S.	P017	Le, T. H.	102, 121
Katary, M. A.	P031	Komatsu, M.	P115, P116	Le, T. H.	MP09, P150
Katary, M. A.	P238	Kon, N.	P603	Leckerman, S.	099, MP08
Katayama Rangel, I. A.	P117	Kon, V.	P253	Lederer, E. D.	P244
Kato, J.	P226	Konhilas, J. P.	P618	Lee, B. H.	050
Katovich, M.	028	Konkalmatt, P.	141 , P180	Lee, D.	P254
Katovich, M. J.	080	Kontos, C. D.	066	Lee, H.	P006
Katsurada, A.	P021	Korniienko, A.	P013	Lee, H.	P119, P120
Kaufeld, J.	P152	Korshunov, V. A.	005, 073	Lee, J.	046
Kaul, S.	P615	Kossmann, S.	P126	Lee, J. S.	047
Kaw, M.	P046 , P107	Kotak, I.	P234	Lee, J. Y.	047
Kawai, T.	P108 , P122	Kotlo, K.	P219	Lee, M. S.	047
Kawano, Y.	P165	Kowalski, I. S. G.	P634	Leenen, F. H.	P142, P192, P249, P250
Keen, H. L.	P123, P134	Kraemer, M. P.	P127	Leiper, J.	109
Kelly, A.	P196	Kramer, H.	P022	Lelievre, E.	MP06
Kemp, B. A.	P242	Krause, E.	080	Lembo, G.	003, P157
Kemp, B. A.	116	Krause, E. G.	P621	Le Mercier, A.	133
Kemp-Harper, B. K.	P106	Kriegel, A.	P124	Lenaers, G.	MP06
Kendrick, C.	P632	Kriegel, A. J.	P640	Lenzini, L.	P212
Kennedy, A.	P624	Krieger-Burke, T.	P154 , P222	Leonard, G.	P075, P181
Kent, E. R.	P229	Krishnan, S.	074	Leskov, I.	P188
Kerwin, T. C.	P155	Kritchevsky, S. B.	P149	Leslie, K. K.	041
Keshkar-Jahromi, M.	P249	Krzywanski, D.	P188	Leslie, K.	P176
Kestenbaum, B.	P022	Kubo, K.	P226	Leslie, K. K.	P094
Ketchum, C. J.	P244	Kuc, R.	P624	Lessard, D.	039
Ketete, M.	P254	Kudo, M.	135, MP10	Letizia, C.	P212
Ketsawatsomkron, P.	001, P134	Kuehl, T. J.	P088, P173, P174	Leurgans, T.	P143
Kett, M.	074	Kumar, A.	048, 082, P046, P107	Levchenko, V.	113
Khalil, R. A.	052	Kumar, N.	P011	Li, C.	P019 , P099, P100
Khan, M. H.	MP15	Kumar, P.	P047 , P195	Li, E.	029
Khan, Z. A.	P137	Kumar, S.	P067		

Author Index (continued)

Li, G.	P017	Majid, D. S. A.	P247	Meyerholz, D.	P053
Li, H.	P167	Majors, B.	P176	Mi, E.	P197
Li, J.	P027	Malfitano, C.	P078, P079	Mian, M.	P034, P601
Li, L.	060	Malik, M.	P124	Michaels, A.	090
Li, M.	MP01	Mamenko, M.	021	Michelini, L. C.	034
Li, N.	137	Mangum, K.	068	Mickelsen, D.	073
Li, P.-L.	P017, P259	Manocha, K. K.	P007	Miki, T.	P164
Li, T.	078, P205	Manrique, C.	136, P172, P200	Miller, G.	P604
Li, W.	045 , 095	Maranon, R. O.	P038, P039 , P040, P081	Miller, M.	107
Li, X.	P158, P251, P259	Marchitti, S.	P160	Miller, S.	P042, P044
Li, X. C.	077, P167, P600	Maric-Bilkan, C.	P170	Milne, G. L.	094
Li, Y.	P158	Mark, A. L.	031	Min, J. Y.	P094
Liang, M.	044, P124, P179, P640	Mark, A. L.	086	Minagawa, Y.	P077
Lieu, M.	074	Mark, P. B.	P214	Mirabito, K. M.	P018
Lima, J. A. C.	P022	Marko, L.	026, P246	Mironova, E. V.	021
Lin, C.	052	Marti, F.	013	Mishra, P.	064
Lin, M. S.	P171	Martin, E.	107	Miskulin, D.	P632
Lindsey, S. H.	079 , P043	Martinez-Lemus, L.	P199, P200, P233	Mitchell, B. M.	P178, P183
Lingonegoro, D. W.	P060	Martinez-Lemus, L.	131	Mitchell, K. D.	P021
Linnenweber-Held, S.	P152	Martins, T. A. F.	P204	Miura, T.	P063, P115, P116
Linz, P.	P220	Martyniuk, C. J.	P057	Miyata, K.	P021
Littlejohn, N. K.	P072	Marulanda Carvajal, J.	P057	Mizuguchi, Y.	MP03
Liu, C.	067	Maruyama, K.	P243	Moak, S. P.	012
Liu, M.	P621	Maruyama, S.	P236	Mohamed, A.	P013
Liu, M.	023	Marvar, P. J.	P201	Mohamed, I. N.	P238
Liu, P.	044, P124, P179, P640	Masuo, K.	P239	Moize, B.	MP11
Liu, R.	117, P033, P102	Mathew, A. V.	025	Molitoris, B. A.	077
Liu, X.	P061	Mathur, S.	P642	Monia, B.	P126
Liu, Y.	P124, P179 , P640	Mathur, S.	P641	Montani, K. C.	070
Lob, H.	039	Matin, N.	P015	Montezano, A. C.	014, 017, 097, 099 , MP08 , P073, P083, P096, P097
Lob, H. E.	031	Matsumoto, T.	P054, P627	Montini, B.	P163
Lobato, N. S.	P073	Matsuura, N.	P077	Monu, S. R.	118
Lobaton, G. O.	027	Matsuzawa, Y.	P001	Mopidevi, B.	048 , P046
Locke, A.	P603	Mattson, D. L.	007, 103	Morgan, D. A.	053, 083, P003, P061
Logue, O. C.	129	Mawri, S.	090	Morgan, D. A.	P237
Lokhandwala, M. F.	P628	Mayo, M.	P602	Morgan, D.	P105
Lominadze, D.	P045	Mayoux, E.	P233	Morgan, G.	P005
Loperena, R.	P616	Mazzarelli, J. K.	P137	Mori, T.	P166
Lopes, H. F.	P634	Mazzuca, M. Q.	052	Morimoto, R.	135, MP10
Lopes, R. A.	014	McAfee, T. R.	037, 076	Morimoto, S.	MP03, P146
Lopes, R. A.	P073	McCallum, L.	P153	Moritz, K. M.	P608
Lopes, R. A. M.	097, 099, MP08	McCarthy, C. G.	069	Morrell, C. N.	005
Loria, A.	013	McCarthy, C. G.	P054	Mortensen, R. M.	136
Loria, A. S.	008, 111	McCord, J.	090	Moshfegh, C.	P201
Loufrani, L.	MP06 , P252	McDonough, A.	101	Motley-Johnson, E. D.	P198
Loughrey, C. M.	MP02, P109	McDonough, A. A.	102	Moura, E.	MP13
Louie, J.	091	McDonough, A. A.	114, P646	Mousa, T. M.	P155
Louis, D. J.	P205	McGavigan, A. K.	009	Mueller, D. N.	042
Lu, J.	P142, P249, P250	McGee, C.	126	Mueller, S. B.	066
Lu, K.-T.	P134	McGrath, H. E.	116, P242	Mueller, S.	022
Lu, X.	023	McMaster, W. G.	119	Muhire, G.	P136
Lu, Y.	P033, P102	McNaughton, C. D.	P026	Muiesan, M.	024, P256
Luft, F. C.	042, P245	McPherson, K.	P020	Muir, S.	P153
Lum-Naihe, K.	P636	Medeiros, A.	P055	Mukohda, M.	001, P128
Lund, H.	007	Meijles, D.	P131	Muldoon, M. F.	P611
Luo, Z.	060, 122	Meijles, D. N.	096, 123 , P132	Müller, D.	125
Lutshumba, J.	P225	Meininger, G.	P199, P232, P233	Müller, D. N.	P246
Ma, J.	P638	Meininger, G.	131	Müller, D.	026
Ma, L.	131, P070	Mell, B.	025 , 043, P042, P044	Mullick, A. E.	P605
Mack, C.	068	Mendez, M.	P084	Munir, S.	P174
MacLean, M. R.	017, P083	Menezes, R. C. A.	P204	Münzel, T.	P126
Madhur, M. S.	006, 101	Menne, J.	P152	Murohara, T.	P077
Madhur, M. S.	105, 140	Mernaugh, R.	P616	Muroya, Y.	P115, P116
Maeda, A.	P202	Merritt, J.	P630	Murphy, M.	013
Maguire, J.	P624	Meshkin, B.	P156	Murphy, S.	P610
Mahdi, F.	129	Mestriner, F. L.	P073	Musha, T.	P138
Mahmood, A.	P623, P636	Metreveli, N.	P133	Muta, K.	P003 , P237
Maiolino, G.	P212	Meyer, M. R.	P607		

Author Index (continued)

Mutchler, S. M.	107	Ohki, K.	P202	Paust, H.	071
Naber, M. C.	P072	Ohri, S.	P025	Pearson, N. A.	P060, P072, P094
Nagalakshmi, V. K.	MP01	Ohsaki, Y.	P166	Pedchenko, T.	P245
Nagamani, S. C. S.	050	Ohsawa, M.	P202	Pedroso, A.	P104
Nagasawa, K.	P077	Ohya, Y.	P059	Peluso, A. A. B.	P110
Nagata, K.	P077	Ohyama, Y.	P022	Peng, K.	023
Nagata, S.	P206 , P226, P603	Okada, M.	P125	Pennathur, S.	025
Nakamichi, Y.	P166	Okamoto, L. E.	089	Pepine, C. J.	075, 080
Nakamura, F.	P138	Okamoto, L. E.	P644	Pepine, C.	P112
Nakamura, S.	P165	Okamoto, M.	P138	Peres Diaz, L. S.	P141
Nakamura, T.	P059	Okhumale, P. I.	P218	Perla, S.	048
Nakamura, T.	P022	Okumura, K.	P251	Perron, M.	P075, P181
Nakamura, Y.	MP10	Oliveira, A. C.	P110	Perrotta, M.	003
Nakano, D.	P248	Oliveira, A. M.	P073	Peterson, E.	118
Natarajan, N.	030	Oliveira, E. M.	088	Petrova, G.	007, 103
Nather, K.	MP02, P109	Oliveira, M. L.	P203	Pettiford, L.	P112
Nation, H. L.	P191	Oliveras, A.	093	Pettus, J.	P638
Nau, A.	023	Olson, J.	P149	Piazza, M.	P163
Navar, L.	051, P021	Olson, J. D.	P069	Pierce, G.	P176
Nazarewicz, R. R.	119	Oltman, C. L.	P237	Pierce, G. L.	041 , P060, P094
Negi, R.	P614	Omata, K.	MP10	Pileri, P.	P255, P256
Negrao, C.	088	Omura, M.	P001	Pires, N.	MP13, P185, P224
Negrea, L.	P632	Oneeb Rehman Mian, M.	P617	Pirro, N. T.	020
Nelson, J. W.	P615	Ono, Y.	135, MP10	Pitra, M. S.	054
Ness, R. B.	P611	Onojghofia, T.	P156	Pitzer, A. L.	P259
Neubert, P.	P245	Onwuanyi, A.	P049, P050	Ploth, D.	P632
Neves, K. B.	014, 099, MP08, P073	Ortiz, P.	104, 142	Pluznick, J. L.	030
Neville, A.	P188	Osborn, J. L.	P010	Pochynyuk, O. M.	021
Newell-Rogers, M. K.	P178	Osborn, J. L.	P082	Poglitisch, M.	MP12 , P209
Newell-Rogers, M. K.	P056	Osborn, J.	P051	Pointer, M. A.	P210 , P240
Nezu, M.	MP10	Osborn, M.	016, P629	Pojoga, L.	MP11
Ng, F.	P048	Osera, T.	P236	Pojoga, L. H.	P117
Nguyen, A. T.	107	Ott, C.	P220	Pollock, D. M.	P639, P642
Nguyen, A. D. C.	P073	Querd, S.	P034, P035, P062	Pollock, J. S.	008
Nguyen, G.	P207	Owby, D.	P619	Pollock, J. S.	P639, P642
Nguyen, H.	P167	Pabbidi, M. R.	MP05, MP14	Pollock, J.	P619
Nguyen, L.	P611	Padmanabhan, S.	P153	Pollow, D.	P618
Nguyen, P.	MP06	Pagano, P.	P131	Porteri, E.	P255, P256
Nguyen Dinh Cat, A.	P071	Pagano, P. J.	096	Possomato-Vieira, J. S.	052
Nham, P.	P119, P120	Pagano, P. J.	123	Potthoff, M. J.	P072
Nicklin, S. A.	MP02 , P109	Pagano, P. J.	P132	Potthoff, S. A.	062
Nicoletti, C.	024	Pagnin, E.	P163	Powell, D.	013
Nicoletti, F.	P160	Pai, A. V.	P027	Powell, L. H.	P137
Niiyama, M.	MP03	Paini, A.	024, P256	Prado, M. A. M.	P215
Nikolich-Zugich, J.	P618	Pakanati, A. R.	P183	Prado, V. F.	P215
Niles, B.	P217	Palei, A. C.	P095, P613	Prchal, J.	107
Nilsen, M.	P083	Pallante, F.	003	Preiss, D. J.	P214
Nishihara, M.	P620	Palygin, O.	113	Prieto, M.	P021
Nishikawa, T.	P001	Pan, Y.	P619	Prieto, M. C.	P247
Nishiyama, A.	P207 , P248	Pandey, A. K.	P221 , P235	Prieto, M.	P032
Nistala, R.	P199, P213 , P233	Pandey, K. N.	P047, P195	Prince, S.	133
Norlander, A. E.	006	Pandey, V.	064	Prossnitz, E. R.	P607
Norlander, A. E.	051, 101	Pandey, V. G.	015	Przybyl, L.	042, P092
Norlander, A. E.	105, 140	Paradis, P.	P034, P035, P062, P601, P617, P625	Pulakat, L.	P622 , P623 , P635 , P636
Nuru, M.	P045	Parikh, S. J.	P234	Pulgar, V. M.	P169
Nybo, M.	P143	Park, J. Y.	P122	Puri, N.	048, 082, P046, P241
Obama, T.	P108	Park, Y.-B.	P119, P120	Pushpakumar, S.	P016, P023 , P244
Obari, D.	P136	Parks, W. T.	P611	Pye, C.	P031
Obi, I.	008	Pascual, J.	093	Qadri, F.	P110
Ocaranza, M. P.	P111	Patel, K.	090	Qi, Y.	080
O'Connor, P. M.	069	Patel, R.	090	Quadri, S.	P019
Oelze, M.	P126	Patel, S. N.	P085	Quadri, S.	P099 , P100
Offermanns, S.	P035, P062	Patil, C. N.	P038, P039	Quelle, F. W.	001, 065, P128
Oganesian, A.	P194	Patil, C. N.	P040	Raber, I.	091
Ogawa, Y.	P063, P115, P116	Patil, C. N.	P081	Raed, A.	P234
Ogbi, S.	069, P054	Paus, T.	P075, P181	Raghuram, V.	P168
Oh, I.-Y.	P119	Pausova, Z.	P075, P181	Rahaman, M.	107
Oh, S. P.	080			Raheja, S.	090

Author Index (continued)

Rahman, A.	P248, P248	Romero, C. A.	P011	Santos, R. A.	P140, P203
Rahman, F.	P028	Romero-Aleshire, M. J.	P618	Santos, R. A. S.	P111, P144
Rahman, M.	P632	Ronchi, F. A.	P104	Sarkar, N.	P067
Rahmouni, K.	053, 083,	Rong, R.	P063	Sarkar, S.	P067
.....	P003, P061, P074, P237	Rose, J. C.	020, P169	Sartori, C.	092
Raij, L.	P162	Rosendahl, A.	071	Sarzi, E.	MP06
Raio, L.	092	Rossi, G.	P211, P212	Sasano, H.	MP10
Raizada, M.	028, 029	Rossi, G.	P163	Sasser, J. M.	049
Raizada, M. K.	027, 075, 080, P057	Rossignol, P.	P071	Saternos, H.	108, P101 , P260
Raj, S. R.	P644	Rossini, C.	P255, P256	Satoh, F.	135, MP10
Rakova, N.	P246	Rossitto, G.	P212	Satou, R.	P032
Ralph, D. L.	102	Rothman, R. L.	P026	Satou, R.	P021
Ralph, D. L.	114, P646	Rouabhi, M.	053	Saunders, T.	P042, P044
Ramirez, C. E.	089	Roumie, C. L.	P026	Savoia, C.	024 , P097
Ramirez-Perez, F. I.	P200	Roussel, R.	P159	Scalia, R.	P186
Ramkumar, N.	021	Roy, A.	P215	Scalzo, S.	P140
Rana, A.	082 , P046, P107	Rubattu, S.	P160	Scarpace, P. J.	P105
Randall, O. S.	P254	Rubiano, A.	027, 028	Scherrer, U.	092
Rasmussen, L. M.	P143	Rubinstein, J.	115	Schiffirin, E.	P034, P035
Rathinasabapathy, A.	028	Rudemiller, N.	007	Schiffirin, E. L.	P062
Ravarotto, V.	P163	Rudy, C.	P150	Schiffirin, E.	P601, P617, P625
Razzoli, M.	P051	Ruf, W.	P126	Schlaich, M. P.	P608
Real-Sorrell, M.	P004	Ruggeri, Z.	P126	Schmidt, J. T.	P057
Reckelhoff, J. F.	P038, P039	Rugor, J.	042, 125	Schmieder, R. E.	P220
Reckelhoff, J. F.	P040	Ruilope, L. M.	P148	Schmuckie, L.	013
Reckelhoff, J. F.	P081	Ruiz, P.	121	Schönfelder, T.	P126
Reese, V.	023	Rump, L. C.	062	Schragenheim, J.	015
Regal, J. F.	040	Rump, L. C.	P135	Schulz, H.	125
Rehman, A.	P035, P601	Russcher, H.	P093	Schuman, M. L.	P141
Reinhardt, C.	P126	Ryan, M. J.	127	Schwager, C.	MP12, P209
Reis, S. E.	P611	Saavedra, J.	P161	Schwartzman, M.	015, 064
Ren, M.	P048	Sada, L.	024	Schwartzman, M. L.	P129
Ren, Y.	118	Sadekova, N.	P136	Schwinn, D. A.	P194
Ren, Z.	052	Saez, F.	124	Scott, A.	P096
Renné, T.	P126	Sahoo, S.	096, 123, P131, P132	Scroggins, S.	P176
Resende, G. S. S.	P111	Saito, J.	P001	Scroggins, S. M.	041, P094
Retta, T.	P254	Sakamoto, Y.	P125	Seccia, T.	P163
Rexhaj, E.	092	Sakarya, Y.	P105	Segawa, Y.	P236
Reyes, C. M.	116	Sakuyama, A.	P063, P115, P116	Segura, J.	P148
Reyes, M.	P173	Saleem, M.	P086	Seiji, K.	MP10
Reynier, P.	MP06	Saleh, L.	P093	Seitz, B. M.	P154, P222
Rhaleb, N.-E.	P011	Saleh, M. A.	006	Seki, Y.	MP03
Rhoads, M. K.	P010 , P082	Saleh, M. A.	051, 101	Selvetella, G.	P157
Ribeiro, E. B.	P104	Saleh, M. A.	140	Sembrant, J.	P131
Richardson, R. S.	023	Salgado, H. C.	P184, P215	Sembrat, J.	096, P132
Richer, C.	P625	Salimova, E.	074	Sembrat, J. C.	123
Richer, L.	P075, P181	Salvetti, M.	P256	Sen, A.	P195
Rigassi, L.	P041 , P098	Samarel, A.	P219	Sen, U.	P016, P023, P244
Rimoldi, S.	092	Samuel, C.	074	Sequeira Lopez, M. S.	MP01
Rios, F. J.	P097	Sanches, I.	P079	Serfozo, P. D.	P629
Ritov, V. B.	P197	Sanchez, J.	P210	Serrão, P.	MP13
Rizzo, V.	P108, P122	Sandberg, K.	022, P027, P204	Seth, D.	P021
Rizzoni, D.	024, P255, P256	Sandgren, J. A.	P060	Severs, D.	P246
Roberts, L.	P616	Sandoval, P.	046	Shah, G. V.	P004
Robertson, A. A. B.	P106	Sandoval, R. M.	077	Shah, S. C.	P229
Robertson, D.	P644	Sangren, J. A.	P094	Shahrivari, M.	P112
Robertson, S.	P002	Sano, Y.	P077	Shalgum, A.	P080
Rocha-Resende, C.	P140	Sans Atxer, L.	093	Shaltout, H. A.	081
Rocic, P.	015, P129	Santillan, D.	P176	Shaltout, H. A.	126
Rodionova, K.	P220	Santillan, D. A.	041, P094	Shaltout, H. A.	P069, P149,
Rodriguez, V.	075	Santillan, M.	P176		P175 , P189, P633
Rojas, M.	096, 123, P131, P132	Santillan, M. K.	041, P060, P094	Shan, Z.	138
Rom, I.	P186	Santisteban, M.	028, 029	Shao, W.	P021
Roman, M. H.	P183	Santisteban, M. M.	027 , P057	Sharma, A.	MP15
Roman, R. J. 063, 127, MP05, MP14, P040, P167		Santo, L. G. B. T.	P204	Sheffield, V.	083
Romano, A.	P002	Santos, J. H.	P005	Shenoy, V.	027, 028 , 080
Romero, C.	118	Santos, R.	P110	Shi, S.	126
		Santos, R. A.	017	Shibao, C. A.	089 , P644

Author Index (continued)

Shibayama, Y.	P207	Steeegers, E. A. P.	P093	Tisheva, S.	P025
Shimizu, Y.	P051	Stegbauer, J.	062, P135	Titze, J.	P245, P246
Shimojo, G.	P079	Stenelo, M.	P143	Tobin, R. P.	P056, P178
Shinohara, K.	P061	Stern, J. E.	032, 054	Toh, B.-H.	074
Shinozuka, K.	P243	Stewart, D.	027	Tokashiki, M.	P206, P226
Shlipak, M.	P022	Stewart, D.	P641	Toklu, H. Z.	P105
Shoemaker, R.	P114	Stewart, D. L.	P606	Tomlinson, J. A. P.	109
Shrake, C. R.	MP16	Stockand, J. D.	021	Tommasi, E. N.	P189
Shuey, M. M.	094	Stocker, S. D.	P058	Torosoff, M.	P024
Siddiqui, A. H.	P614	Stocker, S. D.	P191	Torres, R.	P196
Siddiqui, K.	P223	Straub, A. C.	107	Tostes, R. C.	014, P073
Sigmund, C.	P176	Strehlke, M. E.	040	Touyz, R.	P153
Sigmund, C. D.	001, 041, 065, 095	Strembitska, A.	099, MP08	Touyz, R. M.	014, 017, 097,
Sigmund, C. D.	MP01	Stuart, D.	021		099, MP02, MP08, P073,
Sigmund, C. D.	P003, P060, P061,	Stucker, J. E.	P173		P083, P096, P097, P109
.....	P072, P074, P123, P128, P134	Stump, M.	001, P074 , P134	Touyz, R.	P071
Silveira, A. C.	088	Su, W.	084, P225	Townsend-Nicholson, A.	P048
Silverman, S.	P156	Su, Y.	P169	Tran, H. T.	087
Simmonds, S. S.	P191	Suda, C.	P115, P116	Trask, A. J.	P257
Simmons, C.	028	Suematsu, S.	P001	Trimmer, E. H.	079, P043
Simmons, C. S.	027	Sufiun, A.	P248	Trindade, M.	P035
Simpson, R.	P213	Suleman, A.	P064, P065, P066	Tsiropoulou, S.	P096
Singh, M. V.	072	Sullivan, M. N.	095	Tsunemi, M.	P634
Singh, M.	125	Sumners, C.	P621	Turner, N.	P105
Singh, R. R.	P608	Sun, X.	P171	Turley, S.	P229
Sinnett, D.	P625	Sun, Z.	131, P199, P232	Tyagi, A.	P016
Siragy, H. M.	P099, P100	Sun, Z.	061	Tyagi, G.	P016
Siragy, H.	P019	Suto, R.	051	Tyagi, N.	P045
Sirianni, N.	082, P107	Suzuki, F.	P173	Tyagi, S.	P052
Sivritas, S.	062	Swiercz, A.	P201	Tyagi, S. C.	P008, P133
Skarzinski, G.	P177	Syme, C. A.	P075	Uchiwa, H.	P227
Small, H. Y.	P097	Szasz, T.	P627	Uddin, M. N.	P088, P173 , P174
Snipelisky, D. F.	P007	Tabara, Y.	P164	Ueda, T.	P227
Soares-da-Silva, P.	MP13 , P185 , P224	Taddei, S.	P258	Uhrlaub, J.	P618
Sobey, C.	074	Takahashi, C.	P166	Umemura, S.	P202
Sobey, C. G.	P106, P182	Takano, N.	MP03	Uneda, K.	P202
Soci, U. P. R.	088	Takase, K.	MP10	Unterleutner, E.	P041, P098
Sodhi, K.	P218, P241	Takayanagi, T.	P108	Urbanet, R.	P071
Solano, M. E.	042	Takeuchi, S.	P077	Vaka, R.	110
Soleimani, M.	115, P167, P600	Tamura, K.	P202	Valbuena-Diez, A.	128
Soler, A. A.	P129	Tan, A. Y.	038	Vallerand, D.	P136
Solis, G.	060	Tandon, M.	P131, P132	Van Beusecum, J.	P056
Sones, J.	128	Tang, Y.-D.	P139	van den Meiracker, A.	P246
Sones, J. L.	039	Tank, J.	P152	van den Meiracker, A. H.	P093
Song, J.	031	Tariq, S.	P024	Van Der Mey, L.	P097
Song, L.	P631	Taveau, C.	P159	van Oyen, D.	MP12, P209
Souza, A.	P104	Taylor, A. H. M.	P214	Van Vliet, B. N.	P243
Souza, A. M. A.	P204	Taylor, G.	P181	Van Why, S.	007
Souza, D. R. S.	P228	Taylor, J. M.	068	Varagic, J.	078, 126, MP04 , P205, P603
Souza, P. R. M.	P055	Taylor, L.	P020	Vasanawala, S.	091
Sowers, J.	112, 136, P070,	Taylor, W.	060	Vázquez, S.	093
.....	P172, P199, P200,	Tezini, G. C. S. V.	P215	Veelken, R.	P220
.....	P213, P217, P232 , P233	Tezuka, Y.	MP10	Veeranki, S.	P008 , P052
Sowers, J.	131	Thatcher, S.	P114	Veillette, S.	P075, P181
Sparks, M. A.	P646	Thelen, K.	P643	Veiras, L. C.	114
Speed, J. S.	P639	Thelma, B. K.	P067	Venteclef, N.	P071
Spies, D.	P020	Thieme, M.	062 , P135	Vera, M.	093
Spizzo, I.	002	Thomas, D. S.	037, P091	Verdonk, K.	P093
Spradley, F.	012	Thomas, D. S.	076	Vessieres, E.	MP06
Spradley, F. T.	038 , 049, P095 , P613	Thompson, E.	P218	Vickers, K. C.	070
Sriramula, S.	033, P113	Thompson, J.	P196	Vieira, M.	P634
Staff, A. C.	042	Thompson, J. M.	P626	Vieira, R. P.	P055
Staff, A.	125	Thomson, J.	099, MP08	Vijay-Kumar, M.	025
Stancheva, N.	P025	Tian, J.	120	Vilela-Martin, J. F.	P228
Stanzione, R.	P160	Tian, R.	P162	Villar, V. M.	100
Staruschenko, A.	011, 113	Tian, X.	050	Villar, V. M.	P187
Stasiv, Y.	P602	Tillery, L. C.	P198	Vinh, A.	002, 074, P018
Steckelings, U. M.	P143	Tipping, P.	074	Vinyoles, E.	P148

Author Index (continued)

Viridis, A.	P258	Wenzel, P.	P126	Yao, F.	P609
Visser, W.	P093	Wenzel, U.	071	Yao, T.	MP11
Vogel, S.	P123	Wesley, K. B.	P088	Yarlagadda, V.	P050
Volgman, A. S.	P229	Whaley-Connell, A.	P199, P213, P232, P233	Yatabe, J.	MP03, P146
Volpe, G. J.	P022	White, R.	P192	Yatabe, M.	MP03, P146
Volpe, M.	024, P160	White, T.	059	Ye, M.	016, P629, P637
Volpert, O.	P637	Widdop, R.	P006	Ye, S.	P048
VonCannon, J.	MP04, P603	Widdop, R. E.	002	Yeh, H.-I.	P009
Waghulde, H.	025, 043, P042 , P044	Widlansky, M. E.	P124	Yeh, S. T.	P605
Wagoner, A. L.	P069	Wilck, N.	026	Ying, R.	P124
Wainford, R. D.	035, 106 , 139 , P118	Wilcox, C. S.	109	Yip, K.-P.	117, P033, P102
Wakuda, H.	P243	Wilcox, C. S.	122	Yokota, R.	P104
Wakui, H.	P202	Wilcox, C. S.	P081	Yoneyama, K.	P022
Wallukat, G.	127, P090, P091	Wilhelmi, M.	P152	Yoo, J.	012
Walsh, K. R.	139, P118	Williams, G.	P602	Yoon, C.-H.	P119, P120
Walter, U.	P126	Williams, G. H.	MP11, P117	Yoshida, N.	MP03
Wang, A.	002	Williams, I. M.	P645	Yoshihara, F.	P165
Wang, C.	109	Williams, J.	P090	You, M.	P121
Wang, D.	109	Williams, J. M.	P020	Young, C. N.	086
Wang, D.	P230 , P231	Wills, L.	P109	Young, M. E.	P639
Wang, F.	023	Wilson, B. A.	020	Yu, S.-Q.	P231
Wang, H.	P216	Wilson, J. L.	P174	Yu, Y.	P193
Wang, H.	P171 , P603	Winchester, L.	P052	Yuan, J.	P602
Wang, H.	118	Wise, E.	P112	Yugar-Toledo, J. C.	P228
Wang, H.-W.	P142 , P192 , P249 , P250	Witkowska, K.	P048	Yun, J.-Y.	P120
Wang, J.	P124	Wofford, A.	P630	Yusuf, H.	017
Wang, J.	P207	Wong, W.	050	Zaborska, K. E.	P130
Wang, L.	080, 137	Wood, R. W.	073	Zadigue, G.	P159
Wang, M.	036	Woperr, S.	P027	Zager, P. G.	P632
Wang, S.	117, P102	Wren, N.	P196	Zahedi, K.	115
Wang, S.	021	Wright, L. C.	P185, P224	Zamba, G.	P176
Wang, W.	137	Wu, H.	P251	Zawieja, D. C.	P088, P173
Wang, W.	P139	Wu, J.	051, 070	Zeng, C.	100
Wang, X.	P619	Wu, W.	P610	Zgheib, C.	110
Wang, X.	100, P187	Wu, X.	P027	Zhang, C.	P631
Wang, X.	P087	Wysocki, J.	016 , P629 , P637	Zhang, C.	087
Wang, X.	061	Xia, M.	P017, P259	Zhang, G.	P102
Wang, Y.	P114	Xiao, L.	051, 070, P616	Zhang, H.	P040, P081
Wang, Y.	P181	Xiao, Q.	P048	Zhang, H.	P038, P039
Wang, Z.	085, P076	Xu, B.	P063	Zhang, J.	P600
Wareing, M.	P130	Xu, H.	P181	Zhang, J.	117, P033 , P102
Warrington, J. P.	127	Xu, J.	033	Zhang, J.	080
Wasserman, D.	P245	Xu, J.	115	Zhang, S.	P056
Wasserman, D. H.	P645	Xu, P.	087, 116, P242	Zhang, X.	078 , P205
Watanabe, D.	MP03, P146	Xu, S.	P254	Zhang, Y.	P245
Watanabe, S.	P077	Xu, X.	P619	Zhang, Y.	P259
Watkins, C.	107	XUE, B.	P193	Zhang, Y.	P180
Watts, S. W.	MP07 , P154, P196, P222	Yachida, S.	P207	Zhang, Y.	025
Watts, S. W.	P626, P643	Yakova, D.	P025	Zhao, G.	P158
Webb, R.	P627	Yamada, Y.	P077	Zheng, X.	141, P187
Webb, R.	069, P054	Yamaleyeva, L. M.	126	Zhong, B.	P230
Weber, J. A.	P229	Yamaleyeva, L. M.	P175	Zhou, D.	P158
Wei, J.	117 , P033, P102	Yamashita, K.	MP03	Zhou, M.-S.	P162
Wei, S.	094	Yamawaki, H.	P125	Zhou, S.-F.	023
Wei, Z.	002	Yamazato, M.	P059	Zhu, H.	P234
Weidemann, B. J.	P061, P072	Yanakeva, A.	P025	Zhu, M.	052
Weinberg, J.	P028	Yanes Cardozo, L. L.	P038, P039	Zhu, Q.	137
Weinman, E.	100	Yang, C.	044, P179	Zhu, Y.	P012
Weinman, E. J.	P244	Yang, G.	062, P135	zhu, Y.	P631
Weinstock, P. J.	P137	Yang, H.-M.	P119, P120	Zhuo, J. L.	077 , P167 , P600
Weir, M.	P602	Yang, J.	100	Zimmerman, M. A.	079, P043
Welch, W. J.	060, 109	Yang, K.	023	Zimmerman, M. C.	120
Welch, W. J.	122	Yang, T.	027, 028, 029	Zingler, M. B.	027
Wells, C.	P210, P240	Yang, T.	023	Zouein, F. A.	110
Wen, C. L.	P634	Yang, T.	P009	Zubcevic, J.	027, 029, P057
Wenceslau, C. F.	069	Yang, Y.	098	Zucker, I.	P216
Wenceslau, C. F.	P054	Yang, Y.	P139	Zullo, J.	064
Wenceslau, C. F.	P627				

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. Apply today at my.americanheart.org/research.
- 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.**
- Online access to any seven AHA scientific journals of your choice (full text).*
- 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.

*Specific benefits dependent upon membership tier.

**Restrictions apply. Visit my.americanheart.org for more information.

Become 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**



American
Heart
Association

American
Stroke
Association®

PROFESSIONAL MEMBERSHIP
my.americanheart.org

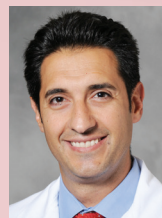
I'm a Member. Are You?



"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."

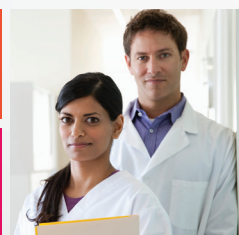
— Pablo Ortiz, PhD

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



scanlife.com

©2015, American Heart Association 8/15DS9602



**ARE
YOU
A MEMBER?**

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**



life is why™

COUNCIL ON
Hypertension
2015

National Center
7272 Greenville Avenue
Dallas, Texas 75231-4596