



AHA Council on Hypertension
AHA Council on Kidney in Cardiovascular Disease
American Society of Hypertension
Joint Scientific Sessions 2018

Joint Hypertension 2018






Scientific Sessions

Final Program

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

Sponsored by the Council on Hypertension, the Council on Kidney in Cardiovascular Disease, and the American Society of Hypertension

Program at a Glance

Thursday, Sept. 6		Friday, Sept. 7		Saturday, Sept. 8		Sunday, Sept. 9	
7:00 AM Coffee and Exhibits		7:00 AM Coffee and Exhibits		6:30 AM Coffee and Exhibits		6:30 AM Coffee and Exhibits	
Session 1 7:45-8:00 AM President's Welcome and Opening Remarks 8:00-10:00 AM Recent Advances in Hypertension		Session 6 8:00-9:00 AM Recent Advances: Debate – Renal Denervation: Is There a Role in Essential Hypertension? Session 7 9:00-10:00 AM Recent Advances: Hot Topics in Hypertension		Concurrent Session 13 7:30-9:00 AM A: Vascular Biology B: Renal Hemodynamics and Tubular Transport C: <i>Hypertension</i> Journal Case Studies 9:00-9:30 a.m. Donald Seldin Award Lecture		Concurrent Session 18 7:30-9:00 AM A: Neurogenic Mechanisms II B: Vascular Stiffness C: Epidemiology, Genetics and Epigenetics 9:00-9:30 AM The Lewis K. Dahl Memorial Lecture	
10:00-10:30 AM Refreshment Break		10:00-10:30 AM Refreshment Break		9:30-10:00 AM Refreshment Break 9:30-10:00 AM Target: BP Connect LIVE!		9:30-10:00 AM Break	
Session 2 10:30-11:10 AM Recent Advances: Lifestyle Modifications and Impact on BP Session 3 11:10 AM-Noon Recent Advances: Obesity and Cardiovascular Disease		Session 8 10:00-11:15 AM Recent Advances: Hot Topics in Hypertension Session 9 11:15 AM-Noon Recent Advances: Blood Pressure and Neurocognition		Concurrent Session 14 10:00-10:30 AM The Harriet Dustan Award Lecture 10:30 AM-12:00 PM A: Blood Pressure Monitoring, Control and Adherence to Treatment B: Clinical Trials, Antihypertensive Drugs and Pharmacology C: Neurogenic Mechanisms I		Concurrent Session 19 10:00-11:30 AM A: Oxidative Stress, Nitric Oxide, Endothelin, and Other Endothelial Factors B: Inflammation, Immunity and Cytokines II C: Pregnancy and Preeclampsia	
Noon-1:30 PM Lunch on your own		Noon-1:30 PM Expert Theater: Long-Term Results of Treatment Across a Broad Range of Patients With Type 2 Diabetes. Noon-1:30 PM Lunch on your own		Noon-1:30 PM Satellite Symposium: Renal Denervation and Blood Pressure Control: A Clinical Trial Update. Noon-1:30 PM Lunch on your own		11:30 AM Meeting Adjourns See you next year Sept. 5-8, 2019 New Orleans, LA	
Concurrent Session 4 1:30-3:00 PM A: Obesity, Diabetes and Metabolic Syndrome B: Cardiac Hypertrophy and Dysfunction C: Pregnancy and Preeclampsia I		Concurrent Session 4 1:30-3:00 PM D: Clinical Practice Clinical Science Track: Aldosterone and Primary Aldosteronism in Hypertension		Concurrent Session 10 1:30-3:00 PM D: Primary Care Track The Evolving Landscape of Blood Pressure Guidelines Part 1		Session 15 1:00-3:00 PM Clinical Practice Clinical Science Track Taking Hypertension into the Community Part 1: The Barbershop Part 2: Telemonitoring, Self-Monitoring, and BP Control	
3:00-3:30 PM Refreshment Break		3:00-3:30 PM Refreshment Break		3:00-3:30 PM Refreshment Break		Legend  Oral Session  Poster Session  Ticketed Event  Concurrent D: Clinical Practice Clinical Science Track or Primary Care Track  Lunch and Breaks	
Concurrent Session 5 3:30-5:30 PM A: Inflammation, Immunity and Cytokines with 30-minute Mini Review Session B: Cerebrovascular Disease, Stroke and Aging C: Renin Angiotensin System I with 30-minute Mini Review Session		Concurrent Session 11 3:00-4:00 PM Arthur C. Corcoran Memorial Lecture 4:00-5:30 PM A: Gender Differences and Sex Hormones B: Hypertension Early Career Oral Awards Session C: Renal Injury		Concurrent Session 16 3:30-5:30 PM A: Salt and Hypertension B: Aldosterone, Receptors and Other Hormones C: Asian Pacific Symposium on Cardiovascular Research			
Concurrent Session 5 3:30-5:30 PM D: Clinical Practice Clinical Science Track: Managing Hypertension in At-Risk Populations		Session 12 5:30-6:45 PM Awards Session Mid-Career Award for Research Excellence; The Harry Goldblatt Award for New Investigators; British and Irish Hypertension Society Young Investigator Award; High Blood Pressure Research Council of Australia Award; Stephanie Watts Career Development Award Finalist Competition		5:35-5:45 PM Refreshment Break Session 17 5:45-6:30 PM The Excellence in Hypertension Research Award			
5:30-7:30 PM Poster Session I Trainee Onsite Poster Competition with Reception		7:00-11:00 PM Trainee Advocacy Mixer		7:00-7:30 PM The Annual Hypertension Scientific Session Awards Social (<i>cash bar</i>) (<i>Ticket required</i>) 7:30-10:30 PM The Annual Hypertension Scientific Session Awards Banquet (<i>Ticket required</i>) Join us in celebrating and recognizing all of our awardees, including the recipients of the Excellence in Hypertension Research Award.			

Letter From the Chair

September 6, 2018

Dear Colleagues,

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

This conference considered the premier scientific meeting on hypertension in the world — focuses on recent advances in hypertension research and clinical practice. The science submitted to this conference continues to provide us the most up-to-date developments on our understanding of the causes of hypertension; its relationship to stroke, cardiac disease and kidney dysfunction; and the most effective means to detect, evaluate and treat high blood pressure across diverse populations.

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

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

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

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

Sincerely,



A handwritten signature in black ink that reads "Karen A. Griffin MD".

Karen Griffin MD, FAHA

Vice-Chair, Council on Hypertension

Chair, Council on Hypertension Scientific Sessions Planning Committee

Hypertension

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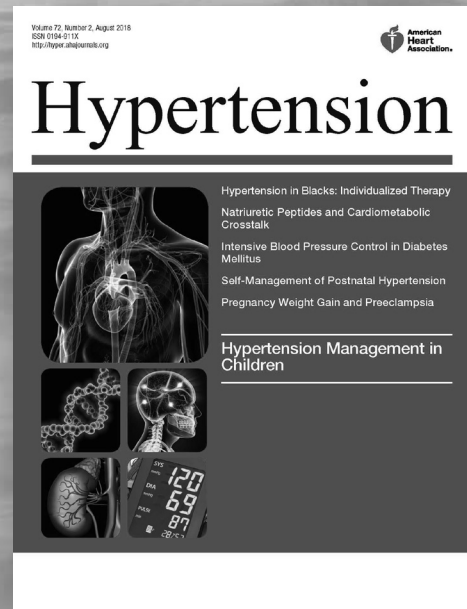
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* From July 1, 2017, to June 30, 2018. Source: American Heart Association.

† Based on 2017 metrics calculated by HighWire Press and Wolters Kluwer.

‡ 2017 Journal Citation Reports (Clarivate Analytics, 2018).

§ As of July 2018.

|| Reflects the highest Altmetric score for a specific point in time, January-June 2018. Altmetric scores constantly change as articles are mentioned and shared online. Source: Altmetric Explorer. Article: "Relation of Dietary Sodium (Salt) to Blood Pressure and Its Possible Modulation by Other Dietary Factors: The INTERMAP Study." *Hypertension*. 2018;71:631-637.

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Questions and Information

If you have questions after reading this program, contact:

The American Heart Association

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*The American Heart Association is a national voluntary health organization whose mission is:
"To be a relentless force for a world of longer, healthier lives."*

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

Council on Hypertension 2018 Scientific Sessions Program Committee

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The American Heart Association gratefully acknowledges the unrestricted educational grant from

Arbor Pharmaceuticals, LLC and Medtronic, Inc.

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

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***Hypertension* journal**

International Society of Hypertension's New Investigator Committee

Janssen Pharmaceuticals

Treating Hypertension in 2018

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

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Abstract Graders

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

Barbara Alexander	Michael Ernst	Analia Loria	Helio Salgado
William Arendshorst	Nicholas Ferreri	James Luther	Joshua Samuels
Michael Bader	Gregory Fink	Dewan Majid	Paul Sanders
Paula Barrett	Joseph Flynn	Frank Mantero	Jennifer Sasser
Donald Batisky	Toshiro Fujita	David Mattson	Ernesto Schiffrin
Daniel Battle	Michael Garrett	James McCormick	Daichi Shimbo
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Alejandro Chade	John Imig	Kailash Pandey	Donna Wang
Mark Chappell	Bina Joe	Joon Park	Stephanie Watts
Fernanda Colombo	Nancy Kanagy	Janos Peti-Peterdi	Michael Weber
Steven Crowley	Raouf Khalil	Luliia Polina	William Welch
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Ralf Dechend	John Kostis	J. Howard Pratt	Robert Widdop
Donald Dipette	Nitin Kumar	Kamal Rahmouni	Jackson Wright
Debra Diz	Louis Kuritzky	Mohan Raizada	J. Michael Wyss
Anna Dominiczak	Theodore Kurtz	Richard Re	Steven Yarows
Satoru Eguchi	Daniel Lackland	Jane Reckelhoff	Xueying Zhao
Khalid Elased	Lilach Lerman	Richard Roman	Irving Zucker
Fernando Eljovich	Scott Lerman	Clive Rosendorff	
William Elliott	Sarah Lindsey	Luis Ruilope	
David Ellison	Thomas Lohmeier	Michael Ryan	

Room Locator

Wednesday, September 5, 2018		
Time	Event	Room
2:00-7:00 PM	Registration	Grand Registration Desk
2:00-7:00 PM	Speaker Resource Room	Grand Suite 3
4:30-7:30 PM	Hypertension Fall Leadership Committee Meeting	Michigan 1
Thursday, September 6, 2018		
Time	Event	Room
7:00 AM-7:00 PM	Science News	Grand Office A
7:00 AM-3:30 PM	Exhibits	Grand Foyer
7:00-7:45 AM	Coffee and Exhibits	Grand Foyer
7:00 AM-7:00 PM	Speaker Resource Room	Grand Suite 3
7:00 AM-7:00 PM	Registration	Grand Registration Desk
7:45-10:00 AM	Session 1: Opening Remarks and Recent Advances in Hypertension	Grand CDEF
10:00-10:30 AM	Break – Refreshments and Exhibits	Grand Foyer
10:30-11:10 AM	Session 2: Recent Advances: Lifestyle Modifications and Impact on BP	Grand CDEF
11:10 AM-Noon	Session 3: Recent Advances: Obesity and Cardiovascular Disease	Grand CDEF
Noon-1:30 PM	Lunch Break on Your Own	
Noon-1:30 PM.	CHAMP Luncheon (Invitation Only)	Randolph 3
Noon—5:00 PM	Poster Session I Set Up	Riverside East
1:30-3:00 PM	Session 4: Concurrent A: Obesity, Diabetes, and Metabolic Syndrome	Columbus ABCD
1:30-3:00 PM	Session 4: Concurrent B: Cardiac Hypertrophy and Dysfunction	Columbus EF
1:30-3:00 PM	Session 4: Concurrent C: Pregnancy and Preeclampsia I	Columbus KL
1:30-3:00 PM	Session 4: Concurrent D: Clinical Practice Clinical Science Track: Aldosterone and Primary Aldosteronism in Hypertension	Grand BD
3:00-3:30 PM	Break – Refreshments and Exhibits	Grand Foyer
3:30-5:30 PM	Session 5: Concurrent A: Inflammation, Immunity and Cytokines with mini-review at 5:00 PM	Columbus ABCD
3:30-5:30 PM	Session 5: Concurrent B: Cerebrovascular Disease, Stroke, and Aging	Columbus EF
3:30-5:30 PM	Session 5: Concurrent C: Renin Angiotensin System I with mini-review at 3:30 PM	Columbus KL
3:30-5:30 PM	Session 5: Concurrent D: Clinical Practice Clinical Science Track: Managing Hypertension in At-Risk-Populations	Grand BD
5:30-7:30 PM	Poster Session I Trainee On-Site Poster Competition with Reception	Riverside East
Friday, September 7, 2018		
Time	Event	Room
7:00 AM-7:00 PM	Science News	Grand Office A
7:00 AM-3:30 PM	Exhibits	Grand Foyer
7:00-8:00 AM	Coffee and Exhibits	Grand Foyer
7:00 AM-7:00 PM	Speaker Resource Room	Grand Suite 3
7:00 AM-7:00 PM	Registration	Grand Registration Desk
8:00 AM-Noon	Poster Session II Set-Up	Riverside East
8:00-9:00 AM	Session 6: Recent Advances: Debate – Renal Denervation: Is There a Role in Essential Hypertension?	Grand CDEF
9:00-10:00 AM	Session 7: Recent Advances: Hot Topics in Hypertension	Grand CDEF
10:00-10:30 AM	Break – Refreshments and Exhibits	Grand Foyer
10:30-11:15 AM	Session 8: Recent Advances: Hot Topics in Hypertension	Grand CDEF
11:15 AM-Noon	Session 9: Recent Advances: Blood Pressure and Neurocognition	Grand CDEF

Room Locator (continued)

Time	Event	Room
Noon-1:00 PM	Expert Theater: Long-Term Results of Treatment Across a Broad Range of Patients With Type 2 Diabetes. Sponsored by Janssen Pharmaceuticals, Inc. Complimentary lunch provided by The American Heart Association to the first 200 attendees.	Grand AC
Noon-1:30 PM	Lunch on Your Own	
1:30-3:00 PM	Poster Session II	Riverside East
1:30-3:00 PM	Session 10: Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines - Part 1	Grand BD
3:00-3:30 PM	Break – Refreshments and Exhibits	Grand Foyer
3:30-4:00 PM	Session 11: Arthur C. Corcoran Memorial Lecture	Grand CDEF
4:00-5:30 PM	Session 11: Concurrent A: Gender Differences and Sex Hormones	Columbus ABCD
4:00-5:30 PM	Session 11: Concurrent B: Hypertension Early Career Oral Awards Session	Columbus EF
4:00-5:30 PM	Session 11: Concurrent C: Renal Injury	Columbus KL
3:30-5:30 PM	Session 11: Concurrent D: Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines Part 2: Areas of Controversy	Grand BD
5:30-6:45 PM	Session12: Awards Session	Grand CDEF
7:00-11:00 PM	Trainee Advocacy Mixer (open to all attendees)	Crystal Ballroom C
Saturday, September 8, 2018		
Time	Event	Room
6:30 AM-5:45 PM	Exhibits	Grand Foyer
7:00 AM-7:00 AM	Science News	Grand Office A
6:30 AM-7:00 PM	Registration	Grand Registration Desk
6:30 AM-6:00 PM	Speaker Resource Room	Grand Suite 3
6:30-7:30 AM	Coffee and Exhibits	Grand Foyer
8:00 AM-Noon	Poster Session III Set-up	Riverside East
7:30-9:30 AM	Session 13: Concurrent D: Primary Care Track: Emerging Issues in Hypertension Management	Grand BD
7:30-9:00 AM	Session 13: Concurrent A: Vascular Biology	Columbus ABCD
7:30-9:00 AM	Session 13: Concurrent B: Renal Hemodynamics and Tubular Transport	Columbus EF
7:30-9:00 AM	Session 13: Concurrent C: <i>Hypertension</i> Journal Case Studies	Columbus KL
9:00-9:30 AM	Donald Seldin Award Lecture	Grand CDEF
9:30-10:00 AM	Break – Refreshments and Exhibits	Grand Foyer
9:30-10:00 AM	Target: BP Connect LIVE! A new opportunity to discuss proven ways to improve blood pressure (BP) control for your patients and learn more about implementing the BP improvement program.	Columbus G
10:00-10:30 AM	Session 14: Harriet Dustan Award Lecture	Grand CDEF
10:30 AM-Noon	Session 14: Concurrent A: Blood Pressure Monitoring, Control and Adherence to Treatment	Columbus ABCD
10:30 AM-Noon	Session 14: Concurrent B: Clinical Trials, Antihypertensive Drugs and Pharmacology	Columbus EF
10:30 AM-Noon	Session 14: Concurrent C: Neurogenic Mechanisms I	Columbus KL
10:00 AM-Noon	Session 14: Concurrent D: Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines Part 3: Special Situations	Grand BD
Noon-1:30 PM	Satellite Symposium: Renal Denervation and Blood Pressure Control: A Clinical Trial Update. <i>Supported by the Cardiovascular Research Foundation. Complimentary lunch provided by The American Heart Association to the first 200 attendees.</i>	Grand AC
Noon-1:30 PM	Lunch on Your Own	

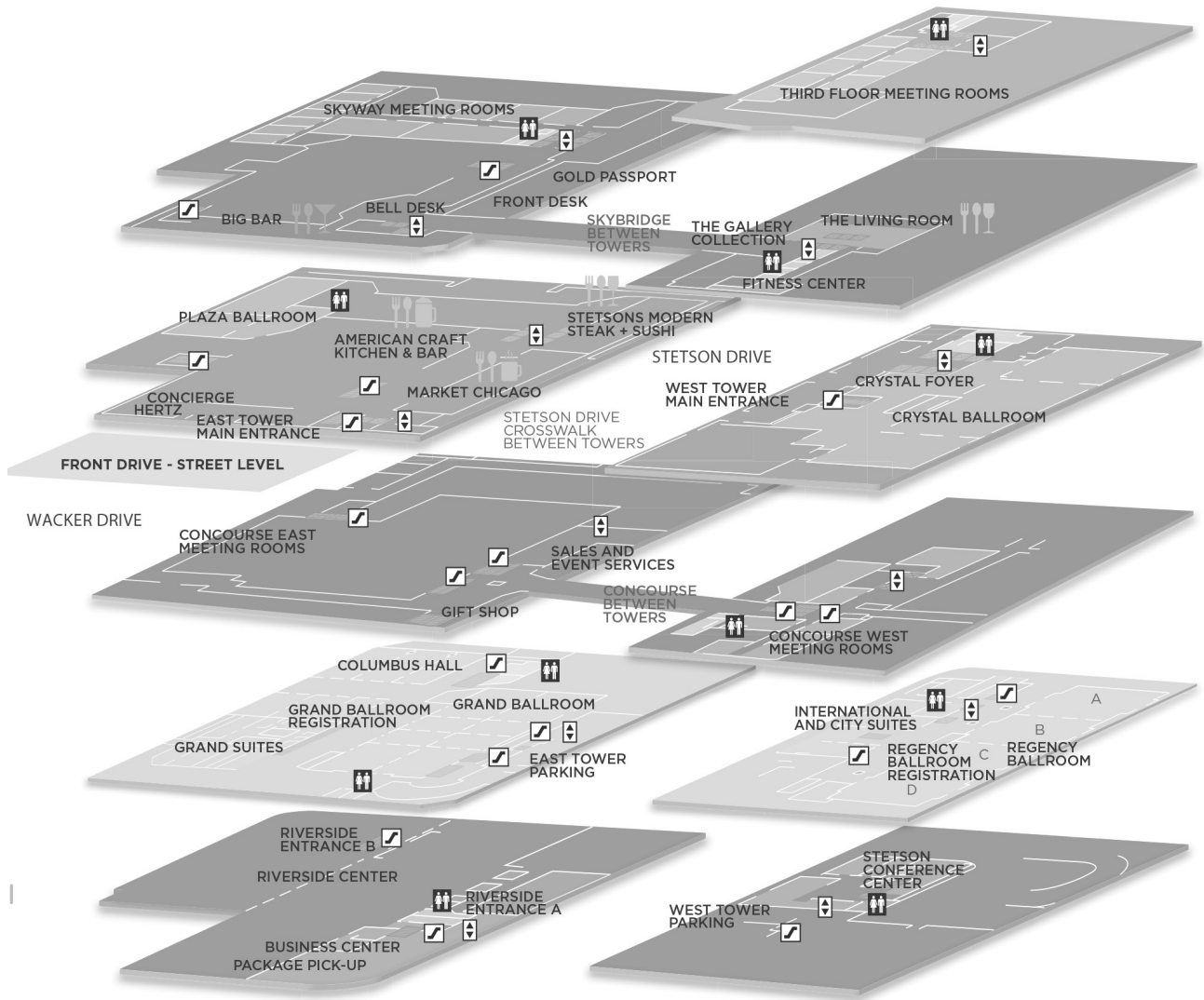
Room Locator (continued)

1:30-3:00 PM	Poster Session III	Riverside East
Time	Event	Room
1:30-3:00 PM	Session 15: Clinical Practice Clinical Science Track: Taking Hypertension into the Community: Part One: The Barbershop	Grand BD
3:00-3:30 PM	Break – Refreshments and Exhibits	Grand Foyer
3:30-5:30 PM	Session 16: Concurrent A: Salt and Hypertension	Columbus ABCD
3:30-5:30 PM	Session 16: Concurrent B: Aldosterone, Receptors and Other Hormones	Columbus EF
3:30-5:30 PM	Session 16: Concurrent C: Asian Pacific Symposium on Cardiovascular Research	Columbus KL
3:30-5:30 PM	Session 16: Concurrent D: Clinical Practice Clinical Science Track: AHA Council on Hypertension/ESC Council on Hypertension Joint Session	Grand BD
5:30-5:45 PM	Break – Refreshments and Exhibits	Grand Foyer
5:45-6:30 PM	Session 17: The Excellence Award for Hypertension Research Lecture	Grand CDEF
7:00-7:30 PM	Social (<i>Cash Bar; Dinner Tickets Required for Entrance</i>)	Crystal Ballroom BC
7:30-10:30 PM	Annual Hypertension Scientific Sessions Awards Banquet (<i>Tickets Required for Entrance</i>)	Crystal Ballroom BC
Sunday, September 9, 2018		
Time	Event	Room
6:30-11:00 AM	Registration	Grand Registration Desk
6:30-11:00 AM	Speaker Resource Room	Grand Suite 3
6:30-8:00 AM	Coffee	Grand Foyer
7:00-11:00 AM	Science News	Grand Office A
7:30-9:00 AM	Session 18: Concurrent A: Neurogenic Mechanisms II	Columbus ABCD
7:30-9:00 AM	Session 18: Concurrent B: Vascular Stiffness	Columbus EF
7:30-9:00 AM	Session 18: Concurrent C: Epidemiology, Genetics and Epigenetics	Columbus KL
8:00-9:20 AM	Session 18: Concurrent D: Clinical Practice Clinical Science Track: Getting It Done: Practical Ways to Improve Blood Pressure Control Part 1	Grand BD
9:00-9:30 AM	Session 18: The Lewis K. Dahl Award Lecture	Grand CDEF
9:20-10:00 AM	Break – Refreshment	Grand Foyer
9:40-11:00 AM	Session 19: Concurrent D: Clinical Practice Clinical Science Track: Getting It Done: Practical Ways to Improve Blood Pressure Control Part 2	Grand BD
10:00-11:30 AM	Session 19: Concurrent A: Oxidative Stress, Nitric Oxide, Endothelin, and Other Endothelial Factors	Columbus ABCD
10:00-11:30 AM	Session 19: Concurrent B: Inflammation, Immunity and Cytokines II	Columbus EF
10:00-11:30 AM	Session 19: Concurrent C: Pregnancy and Preeclampsia II	Columbus KL

Hotel Maps

EAST TOWER

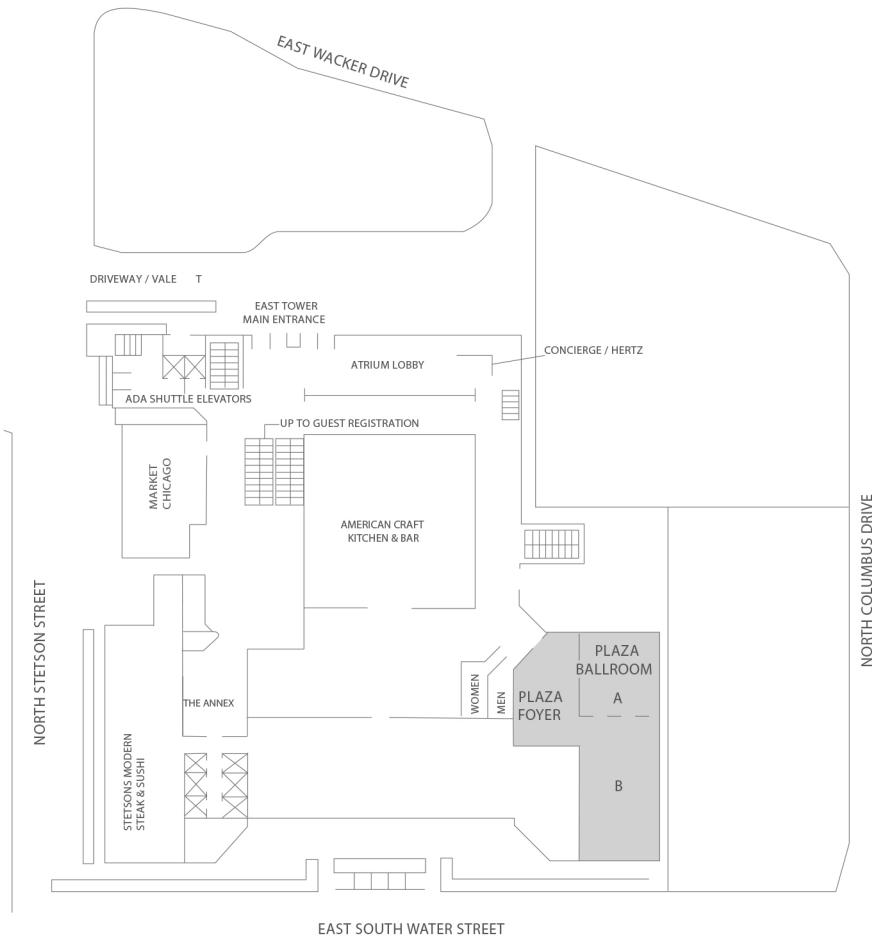
WEST TOWER



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

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

	ELEVATORS
	ESCALATORS AND STAIRS
	RESTROOMS

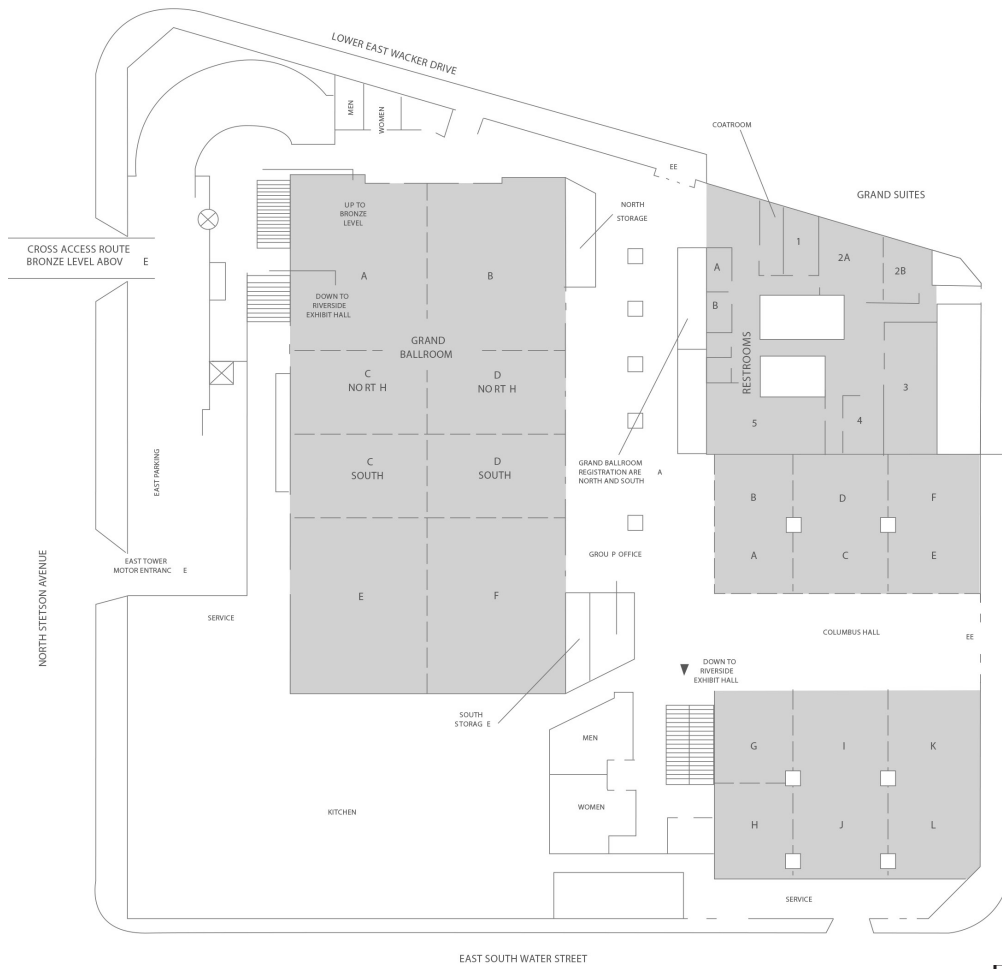


East Tower, Green Level

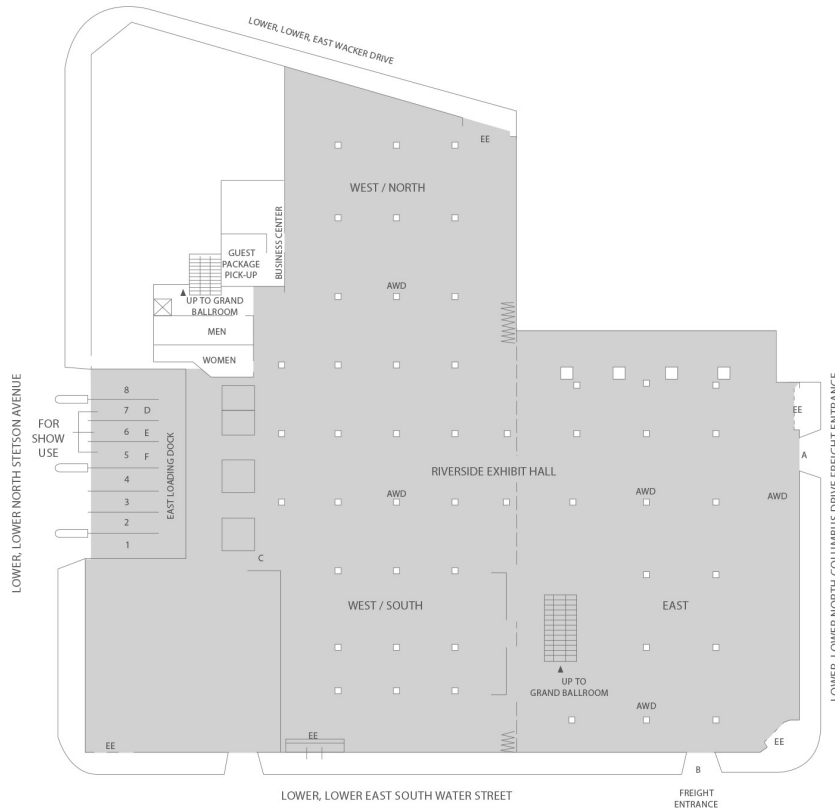


East Tower, Lakeshore Meeting Suites

Hotel Maps (continued)



East Tower, Gold Level



East Tower, Purple Level

Program Information

Conference Summary

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



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

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

Conference Learning Objectives

After completing this program, participants will be able to:

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

Hypertension

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Anna F. Dominiczak, DBE, MD, FRCP, FAHA, FRSE, FMedSci

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Sharing practical knowledge through recorded clinical case discussions.

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Open Access Options for Original Research

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

Annual Top Paper Awards

Categories:
Basic, Clinical, and Population Science



High Impact Papers in Hypertension

Collections Are Posted Seasonally: Summer, Fall, Winter, Spring

2017 Clinical Hypertension Guidelines

New Collection Online: Guidelines Conversations

Visit Our Booth and Talk to the Managing Editor To Learn More

Program Information (continued)

Conference Highlights

Opening Session and Lecture

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

Poster Session Featuring Trainees

Riverside East

5:30-7:30 PM Thursday

1:30-3:00 PM Friday

1:30-3:00 PM Saturday

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

Awards Session

Grand CDEF

5:30-6:45 PM Friday

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

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

ASIAN/PACIFIC Symposium on Cardiovascular Research

Columbus KL

3:30-5:30 PM Saturday

The session is in collaboration with the Japanese Society of Hypertension, Sun Yat-Sen University Zhongshan Medical School, China and the Australian Council for High Blood Pressure Research.

Hypertension Journal Case Study Session

Columbus KL

7:30-9:00 AM Saturday

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

NEW! Annual Hypertension Scientific Sessions Awards Banquet

Crystal Ballroom BC

7:30-10:30 PM Saturday

Members and non-members are welcome! Join us in celebrating and recognizing all of our awardees, including the recipients of the Excellence Award for Hypertension Research, Dr. R. Clinton Webb and Dr. Paul K. Whelton. If you didn't pre-register for this event, please visit the conference registration desk to see if tickets are still available. Details on the 2018 award winners can be found on page 14.

Expert Theater

Grand AC

Noon-1:00 PM Friday

Join us for complimentary lunch* in an Expert Theater while learning about the Long-Term Results of Treatment Across a Broad Range of Patients With Type 2 Diabetes.

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

Program Information (continued)

Target: BP Connect LIVE!

Columbus G

9:30-10:00 AM Saturday

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

Satellite Symposium

Grand AC

Noon-1:30 PM Saturday

Join us for complimentary lunch* in a Satellite Symposium to discuss Renal Denervation and Blood Pressure Control: A Clinical Trial Update

*Complimentary lunch provided by the American Heart Association to the first 200 attendees. This event is sponsored by Cardiovascular Research Foundation and supported through educational grants from Medtronic and Recor Medical.

Trainee/Early Career Focused Events

We are pleased to offer numerous events for early-career attendees:

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



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



The American Heart Association Trainee Advocacy Committee would like to thank DSI for its support of the mixer event.

- 1:30-3:00 PM Saturday – Poster Session III in Riverside East featuring trainees.

Exhibits

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

Exhibitor Hours:

- 7:00 AM–3:30 PM Thursday
- 7:00 AM–3:30 PM Friday
- 6:00 AM–5:45 PM Saturday

Program Information (continued)

The Council on Hypertension is pleased to present . . .

The Excellence Award for Hypertension Research

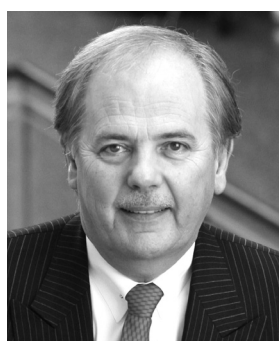
Saturday, September 8, 2018



A Study of the Innate Immune Response in Hypertension

**R. Clinton Webb,
PhD, FAHA**

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



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

**Paul K. Whelton,
MB, MD, MSc, FAHA**

Clinical Professor Show Chwan Health System Endowed Chair in Global Public Health, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana

Lectures

5:45 PM

Grand CDEF

Annual Hypertension Scientific Sessions Awards Social

7:00 PM

Crystal Ballroom BC

(Dinner ticket required for entrance)

Annual Hypertension Scientific Sessions Awards Banquet

7:30 PM

Crystal Ballroom BC

(Dinner ticket required for entrance)

Program Information (continued)

Conference Awards



Irvine Page & Alva Bradley Lifetime Achievement Award

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

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

The Lifetime Achievement Award is presented each year to an individual who has had a lifetime of outstanding achievements in the field of hypertension and has served as a role model through service, research and teaching. Recipients have generally had a career spanning at least 25 years. We are pleased to present this year's award to **Dr. William C. Cushman**, University of Tennessee College of Medicine. Please join us for the plaque presentation during the Awards Banquet at 7:30 PM Saturday in Crystal Ballroom BC.

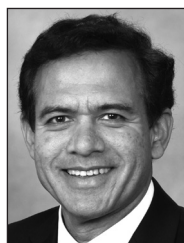


The Marvin Moser Clinical Hypertension Award

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

The Marvin Moser Clinical Hypertension Award was established in 2018 to honor the memory of Dr. Marvin Moser, one of the leading figures in the field of hypertension, and the inaugural Editor-in-Chief of *The Journal of Clinical Hypertension*. After completing his cardiology fellowship at Mount Sinai Hospital in New York, Dr. Moser served as the Chief of Vascular Disease and Hypertension at the Walter Reed Army Medical Center in Washington, DC In the 1950's when hypertension was only recognized in its most malignant form and debilitating procedures were the mainstay of treatment given the lack of antihypertensive medications, Dr. Moser was one of the first to suggest that hypertension had far greater prognostic importance than just its immediate effects on major life-threatening events. He was a pioneer in the exploration of drug therapy for reducing blood pressure thus making the treatment of hypertension possible. Dr. Moser concluded his career as a Clinical Professor of medicine at the Yale School of Medicine.

The Marvin Moser Clinical Hypertension Award recognizes a qualified mid-career or senior hypertension clinician for their dedication to the treatment and care of hypertensive patients. We are pleased to present this year's award to **Dr. Brent M. Egan**, Care Coordination Institute. Please join us for this plaque presentation during the Awards Banquet at 7:30 PM Saturday in Crystal Ballroom BC.



Arthur C. Corcoran Memorial Lecture

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

The Arthur C. Corcoran Memorial Lecture was established in 1977 to honor Dr. Arthur C. Corcoran for his early application of clearance methods in both hypertensive patients and animals. The lecture will be presented by **Dr. Virend K. Somers**, at 3:30-4:00 PM Friday in Grand CDEF.



The Lewis K. Dahl Memorial Lecture

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

The Lewis K. Dahl Memorial Lecture was established in 1988 by the Council for Hypertension in honor of Dr. Dahl's pioneering work on the relations between salt, the kidney and hypertension, and the establishment of a major genetically based experimental model of hypertension, the Dahl salt-sensitive rat. **Dr. Dominik N. Müller** will present the lecture at 9:00-9:30 AM Sunday in Grand CDEF.



The Harriet Dustan Award

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

The Harriet Dustan Award recognizes female investigators who have made outstanding contributions in the field of hypertension. This award was established in 2008 to honor the memory of Dr. Harriet Dustan, an outstanding clinician and investigator who was a tireless worker on behalf of the Council on Hypertension and the American Heart Association for more than 50 years. In addition to her numerous career achievements, Dr. Dustan served the AHA as president, chaired its Ethics and Research Committees and was the founding editor-in-chief of *Hypertension*. This year's honoree, **Dr. Barbara T. Alexander**, will present the lecture at 10:00-10:30 AM. Saturday in Grand CDEF.

Program Information (continued)



The Donald Seldin Lecture

Paul A. Welling, MD, FAHA, University of Maryland School of Medicine, Baltimore, Maryland

The Donald Seldin Lecture honors Dr. Donald Seldin, a pioneer and leader in the field of cardiovascular disease as it relates to kidney failure. This lecture continues to raise awareness about the rising epidemic of cardiovascular disease and mortality in patients with chronic kidney disease. The lecture will be presented by **Dr. Paul A. Welling** at 9:00-9:30 AM Saturday in Grand CDEF.



Mid-Career Award for Research Excellence

Jennifer C. Sullivan, PhD, FAHA, Augusta University, Augusta, Georgia

The award recognizes a mid-career investigator active in hypertension or cardiovascular research. This year's winner, **Dr. Jennifer C. Sullivan**, was selected for her major contributions to the field of hypertension. She will present at 5:30-5:45 PM Friday in Grand CDEF.



The Harry Goldblatt New Investigator Award

Amy C. Arnold, PhD, FAHA, Pennsylvania State University College of Medicine, Hershey, Pennsylvania

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

The award is named after Dr. Harry Goldblatt, a pathologist who established the first animal model of hypertension in 1934. The model provided researchers with the tools to delineate the renin-angiotensin system of blood pressure control and, eventually, to design enzyme inhibitors for the treatment of chronic hypertension. This year's winner, **Dr. Amy C. Arnold**, will present at 5:45-6:00 PM Friday in Grand CDEF.

The Stephanie Watts Career Development Award Finalists

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



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



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



Jennifer L. Sones, DVM, PhD, Louisiana State University School of Veterinary Medicine, Baton Rouge, Louisiana, will present her pitch, *White Adipose Tissue in the Preeclamptic-like BPH/5 Mouse has a Unique Molecular Signature during Early Pregnancy* at 6:40-6:45 PM Friday.

Program Information (continued)



British and Irish Hypertension Society Young Investigator Award

Luca Faconti, King's College London, England, winner of the BIHS Young Investigator Prize, will present abstract *Effects of Lower Limb Venous Occlusion on Cardiac Preload, Blood Pressure and Ventricular Function* at 6:00-6:15 PM Friday in Grand CDEF.



High Blood Pressure Research Council of Australia Award

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

Abstract Awards

Council on Hypertension New Investigator Travel Award

Sponsored by the Council on Hypertension

Name	Abstract/Presentation Number	Day/Time
Bethany L. Dale	21	4:00 PM Thursday
Anand R. Nair	36	4:45 PM Thursday
Ravindra K. Sharma	37	5:00 PM Thursday
Angela K. Lucas-Herald	40	4:15 PM Friday
Giannie Barsha	43	5:00 PM Friday
Eman Y. Gohar	44	5:15 PM Friday
Sumit R. Monu	65	8:00 AM Saturday
Estrellita Uijl	79	11:30 AM Saturday
Justin P. Van Beusecum	127	10:00 AM Sunday
Megan M. Shuey	P108	5:30 PM Thursday

New Investigator Travel Award

Sponsored by the Council on Hypertension Trainee Advocacy Committee

Name	Abstract/Presentation Number	Day/Time
David M. Patrick	22	4:15 PM Thursday
Hannah A. Cooper	61	8:30 AM Saturday
David Ferland	78	11:15 AM Saturday
Kei Omata	98	4:15 PM Saturday

Kidney Council New Investigator Award

Sponsored by the Council on Kidney in Cardiovascular Disease

Name	Abstract/Presentation Number	Day/Time
Carmen De Miguel	1	1:45 PM Thursday
Jie Zhang	2	2:00 PM Thursday
Lajos Markó	38	5:30 PM Thursday
Hong Xue	54	5:00 PM Thursday
Chao Zhang	56	5:30 PM Thursday
Alfonso Eirin	63	7:45 AM Saturday
Daian Chen	89	4:15 PM Saturday
Jing Wu	94	5:30 PM Saturday
Wissam A AbouAlaiwi	P148	7:30 PM Thursday
Shirin Pourafshar	P158	7:30 PM Thursday

Program Information

Hypertension Early Career Oral Award Session (*Hypertension Early Career Award Competition*)

Sponsored by the Trainee Advocacy Committee of the Council on Hypertension, the British and Irish Hypertension Society, the Hypertension Journal and the International Society of Hypertension's New Investigator Committee.

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

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

Supported by the American Foundation for Hypertension Research and Education

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

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

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

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

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

New Investigator Award for Japanese Fellows

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

Name	Abstract/Presentation Number	Day/Time
Norihiko Morisawa	P220	5:30 PM Thursday
Kenichi Katsurada	084	11:15 AM Saturday
Qin Wang	068	8:45 AM Saturday

General Information

Registration

Conference registration is located in the *Grand Foyer* at the Hyatt Regency Chicago. Pre-registered attendees can pick up their conference badge here. Please inquire here if you need a ticket for any of the ticketed events. The registration desk opens at 2:00 PM Wednesday and closes at 11:30 AM Sunday.

Speaker Resource Room

The Speaker Resource Room is located in the *Golden Gate Room*. Speakers are asked to deliver their presentations on a USB drive to the Speaker Resource Room at least 12 hours before the beginning of the session in which they will speak. Those speaking on Thursday, September 14 can visit the speaker ready room at 3:00-7:00 PM Wednesday, September 13. This will allow you time to prepare, rehearse and finalize your presentation before submitting it. Speakers may review and revise their presentations before submission. **It is imperative that you review your presentation in the Speaker Resource Room if it contains video files or if it was created on a Macintosh computer.** Staff will be available to assist with technical issues.

The Speaker Resource Room will be open during the following hours:

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

Abstract Information

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

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

Abstracts P238-P321 and P322-P403 will be presented as poster presentations during Poster Session II and Poster Session III.

Details on Poster Session I, II and III can be found on page 43.

ePosters

ePosters and QR Codes with Audio/Video

We are excited to offer ePosters at Hypertension 2018! Poster presenters were asked to upload an ePoster (electronic version of their poster and record narration or add a video file). The QR code on the poster board allows attendees to view the ePoster and abstract through their smartphone and listen to any recorded narration or videos the presenter may have provided.

ePosters and abstracts can be viewed online at <https://htn.apprisor.org>.

Continuing Medical Education Accreditation

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

AMA Credit Designation Statement – Physicians

The American Heart Association designates this live activity for a maximum of 26.25 *AMA PRA Category 1 Credits*[™].

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AAPA Credit Acceptance Statement – Physician Assistants

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

AANP Credit Acceptance Statement – Nurse Practitioners

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

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

ANCC Credit Designation Statement - Nurses

The maximum number of hours awarded for this CE activity is 26.25 contact hours.

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

General Information

#Hypertension18

Get social at Hypertension 2018!

Tweet from the meeting! Follow @AHAMeetings and @AHAScience Tweet, retweet, or add your favorite conference photo. Please use hashtag #Hypertension18.

Join our AHA Early Career Group on Facebook! facebook.com/groups/ahaearlycareer

Follow The Early Career Voice Blog! earlycareervoice.professional.heart.org

AHA Volunteer Opportunities

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

Policy Information

Disclaimer

The Hypertension 2018 Scientific Sessions is a scientific and educational conference for exchanging and discussing research results and scientific developments in the field of cardiovascular outcomes research. Accordingly, the American Heart Association cannot offer any assurance or warranty of the accuracy, truthfulness or originality of the information presented at the conference.

AHA Harassment Policy

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

Embargo Guidelines

Abstracts, lectures and presentations in HTN 2018 are embargoed for release at the time of presentation. Information may not be released before the scheduled presentation time.

Photography/Recording Policy

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

The American Heart Association and 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 Hypertension 2018 attendees, vendors and guests may be photographed and videotaped by AHA vendors. Some of these images may be displayed in publications or materials connected with the event. If you don't want your image to be displayed by the AHA, please contact the AHA in writing at 7272 Greenville Avenue, Dallas, TX 75231, Attention: Manager, Scientific Conferences, Hypertension Scientific Sessions, no later than Sept. 30, 2018.

No-Smoking Policy

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

Seating/Badge Requirement

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

The American Heart Association reserves the right to revoke or deny attendance to any registered participant, speaker, exhibitor, news media reporter, or photographer of presentations or activities at AHA/ASA scientific conferences and meetings.

Program Agenda

THURSDAY, SEPTEMBER 6

7:00 AM

**Registration/Information Desk Open,
Exhibits and Refreshments**

Grand Foyer

7:45–8:15 AM

Opening Remarks

Grand CDEF

7:45 **AHA President's Welcome Address**

Ivor Benjamin, MD, FAHA, President,
American Heart Association

8:00 **Opening Remarks**

Karen Griffin, MD, FAHA, Chair,
Fall Specialty Conference Planning Committee

8:05 **Welcome**

Joey Granger, PhD, FAHA, Chair,
Council on Hypertension

8:15–10:00 am

Session 1

Recent Advances in Hypertension

Grand CDEF

Chairs:

Joey Granger, PhD, FAHA, University of Mississippi
Medical Center, Jackson, Mississippi

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

8:15 **Highlights of the New Hypertension Guidelines**

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

8:40 **Implementation of the New Hypertension
Guidelines**

Brent Egan, MD, FAHA, Medical University of
South Carolina, Charleston, South Carolina

9:05 **Clinical Hypertension Research: Where Do We Go
from Here?**

Suzanne Oparil, MD, FAHA, University of Alabama,
Birmingham, Alabama

9:30 **Recent Advances and Future Directions in Basic
Research**

David Ellison, MD, FAHA, Oregon Health Sciences
University, Portland, Oregon

10:00–10:30 AM

Refreshment Break and Exhibits

Grand Foyer

10:30–11:10 am

Session 2 Recent Advances

Lifestyle Modifications and Impact on BP

Grand CDEF

Chair:

David G. Harrison, MD, FACC, FAHA,
Associate Editor of *Hypertension*

10:30 **Optimizing Cardiometabolic Health**

Robert J. Chilton, DO, FACC, FAHA, University of
Texas Health Science Center, San Antonio, Texas

10:50 **The Anti-Aging Effects of Aerobic Exercise on
Systemic Arteries**

Hirofumi Tanaka, PhD, University of Texas at Austin,
Austin, Texas

11:10 AM–Noon

Session 3 Recent Advances

Obesity and Cardiovascular Disease

Grand CDEF

Chair:

Suzanne Oparil, MD, FAHA,
Consulting Editor of *Hypertension*

11:10 **Obesity Paradox in Hypertension: Should the SNS
Be a Target to Improve Cardiometabolic Risk?**

Elisabeth Lambert, Swinburne University of
Technology, Melbourne, Australia

11:35 **Cardiovascular Disease and Obesity: Recent
Advances and Future Directions**

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

Noon–1:30 PM

Lunch available on your own

1:30–3:00 PM

Session 4 Concurrent A

Obesity, Diabetes, and Metabolic Syndrome

Columbus ABCD

Chairs:

Kamal Rahmouni, PhD, FAHA University of Iowa
Carver College of Medicine, Iowa City, Iowa

Carmen De Miguel, PhD, University of Alabama
Birmingham, Birmingham, Alabama

Oral Abstract Presentations

1:30 **Loss of ETB Receptor Function Activates
Inflammasome Signaling Pathways and
Dendritic Cells in the Renal Outer Medulla
during Type 1 Diabetes** 1

Carmen De Miguel, David M Pollock,
Jennifer S. Pollock, University of Alabama at
Birmingham, Birmingham, AL

THURSDAY

Program Agenda (continued)

THURSDAY

- | | | | | | |
|------|---|---|------|---|----|
| 1:45 | Macula Densa SGLT1-NOS1-TGF Pathway – A New Mechanism for Glomerular Hyperfiltration in Diabetes
Jie Zhang , Shan Jiang, Jin Wei, Lei Wang, Ruisheng Liu, The University of South Florida, Tampa, FL | 2 | 2:00 | Regulatory Role Of Endothelial Sirt3 on Blood Pressure and Diastolic Dysfunction in a Female Mice
Heng Zeng, Rebecca A. Worsham, Jian Xiong Chen , University Mississippi Medical Ctr, Jackson, MS | 9 |
| 2:00 | Mrap2 Dissociate Mc4r-mediated Sympathetic Control of Metabolism and Blood Pressure
Deng-Fu Guo , Balyssa Bell, Donald A Morgan, Huxing Cui, Julien A Sebag, Kamal Rahmouni, The University of Iowa, Iowa City, IA | 3 | 2:15 | Dual Loss of RGS2 and 5 Exacerbates the Progression of Cardiac Hypertrophy in Mice Chronically Treated with Isoproterenol
Shelby A. Dahlen, Ipsita Mohanty, Ursula Djameh, Alethia Edwards, Jennifer Koch, Patrick Osei Owusu , Drexel University College of Med, Philadelphia, PA | 10 |
| 2:15 | Caloric Restriction Prevents the Increase in Body Weight but not Hypertension in ALMS1 (Alström syndrome 1) Knockout Rat
Keyona N. King-Medina , Wayne State Univ Sch of Med, Westland, MI; Pablo A. Ortiz, Henry Ford Hosp, Hypertension and Vascular Res Div, Dept of Internal Med, Wayne State Univ Sch of Med, Detroit, MI | 4 | 2:30 | Regression of Left Ventricle Hypertrophy and Improvement of Ventricular Dysfunction After Renal Revascularization is Dependent of Blood Pressure Response and Etiology of Renal Artery Stenosis
Luiz Bortolotto , Thiago A. Macedo, Luis J. Kajita, Heart Inst (InCor), São Paulo, Brazil; Julio C. Marino, Heart Inst (InCor), São Paulo, France; Jose J De Lima, Heart Inst (InCor), São Paulo, Brazil | 11 |
| 2:30 | Hemodynamic and Renal Changes in in Obese Patients 12 Months After Bariatric Surgery
Anna Oliveras , Ana M Granados, Sara Alvarez, Albert Goday, Laia Sans, Susana Vazquez, Anna Faura, Julio Pascual, Hosp del Mar, Barcelona, Spain | 5 | 2:45 | Canstatin, a Fragment of Type IV Collagen $\alpha 2$ Chain, Inhibits Isoproterenol-induced Cardiac Hypertrophy in Rats
Akira Sugiyama , Muneyoshi Okada, Hideyuki Yamawaki, Sch of Veterinary Med, Kitasato Univ, Towada | 12 |
| 2:45 | A Dual Role Of 12/15-lipoxygenase In Lipopolysaccharide-induced Acute Renal Inflammation and Injury
Ahmed A. Elmarakby , Ahmed S. Ibrahim, Mohamed A. Katary, Ahmed M. Abd El Razek, Nehal M. Elsherbini, Mohamed Al-Shabrawey, Augusta Univ, Augusta, GA | 6 | | | |

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

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

Oral Abstract Presentations

- | | | |
|------|--|---|
| 1:30 | Exogenous Delivery Of Alpha-calcitonin Gene Related Peptide Inhibits Apoptosis and Oxidative Stress And Protects Against Pressure-induced Congestive Heart Failure
Ambrish Kumar , Scott Supowit, Jay D. Potts, Donald J. DiPette, Univ of South Carolina, Columbia, SC | 7 |
| 1:45 | Chronic Central Melanocortin 4 Receptor Activation Attenuates Cardiac Dysfunction After Myocardial Infarction in Rats
Fabio N. Gava, Alexandre A. da Silva, John E. Hall, Jussara M. do Carmo , UMMC, Jackson, MS | 8 |

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

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

Oral Abstract Presentations

- | | | |
|------|--|----|
| 1:30 | Soluble Guanylate Cyclase Activators Improve Vascular Function and Attenuate Placental Ischemia-Induced Hypertension
Bhavisha A. Bakrania , Frank T. Spradley, Adam B. Travis, Univ of Mississippi Med Ctr, Jackson, MS; Peter Sandner, Bayer AG, Wuppertal, Germany; Joey P. Granger, Univ of Mississippi Med Ctr, Jackson, MS | 13 |
| 1:45 | Betamethasone: a Novel Therapeutic Intervention for Preeclampsia
Sabrina M. Scroggins , Donna A. Santillan, Jeremy A. Sandgren, Gary L. Pierce, Curt D. Sigmund, Justin L. Grobe, Mark K. Santillan, Univ of Iowa, Iowa City, IA | 14 |

Program Agenda (continued)

THURSDAY

- | | | |
|---|---|--|
| <p>2:00 Reduced Placental Expression of Regulator of G Protein Signaling-2 (RGS2) in Preeclampsia: Association, Consequence, and Cause
 Katherine J. Perschbacher, Guorui Deng, Jeremy A. Sandgren, Donna A. Santillan, Eric J. Devor, Gary L. Pierce, Rory A. Fisher, Katherine N. Gibson-Corley, Mark K. Santillan, Justin L. Grobe, University of Iowa, Iowa City, IA</p> <p>2:15 Placental Ischemia Exposure leads to a Pro-Inflammatory Environment in Brains of Embryonic Day 19 Rat Offspring
 Junie P. Warrington, Omar C. Logue, Gene L. Bidwell, Qingmei Shao, Univ Mississippi Medical Center, Jackson, MS</p> <p>2:30 Effect of Sildenafil on Nitric Oxide-Mediated Vasodilation in the Human Placenta: an Ex-Vivo Placental Perfusion Study
 Emilie Hitzerd, Marija Glisic, Katrina M. Colafella, René de Vries, Sam Schoenmakers, Daphne Merkus, Irwin K. Reiss, A. H. Danser, Sinno H. Simons, Erasmus MC, Rotterdam, Netherlands</p> <p>2:45 High Stillbirth Rate and Altered Maternal Renal Function and Water Balance are Associated with Spontaneous Gestational Hypertension in Nonhuman Primates
 Chelsea C Weaver, Univ of Kentucky, Lexington, KY; Frances Louard, Biomedical Science Res Group, Lexington, KY; Jeffrey L. Osborn, Univ of Kentucky; Biomedical Science Res Group, Lexington, KY</p> | <p>15</p> <p>16</p> <p>17</p> <p>18</p> | <p>2:50 Q&A
 Panelists:
 David Ellison, MD, FAHA, Oregon Health Sciences University, Portland, Oregon
 Celso Gomez-Sanchez, MD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
 David A. Calhoun, MD, University of Alabama, Birmingham, Alabama
 Bryan Williams, MD, FAHA, University of Leicester, Leicester, England</p> <p>3:00-3:30 PM
 Refreshment Break and Exhibits
 <i>Grand Foyer</i></p> <p style="background-color: #f0f0f0; padding: 5px;">3:30–5:30 PM
 Session 5 Concurrent A
 Inflammation, Immunity and Cytokines I
 <i>Columbus ABCD</i>
 Chairs:
 Michael J. Ryan, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
 Annet Kirabo, DVM, MSc, PhD, Vanderbilt University Medical Center, Nashville, Tennessee</p> <p>18 Oral Abstract Presentations</p> <p>3:30 A20 in Dendritic Cells Protects Against Hypertension by Inhibiting Dendritic Cell-Mediated T Cell Activation 19
 Xiaohan Lu, Nathan Rudemiller, Jiandong Zhang, Jamie Privratsky, Gianna Hammer, Joyce Zhang, Yi Wen, Jiafa Ren, Steven D. Crowley, Duke Univ, Durham, NC</p> <p>3:45 Sex Difference in T Regulatory Cells After Adoptive Transfer From Hypertensive Donors Leads to Protection Against T Cell-mediated Hypertension in Premenopausal Female Mice 20
 Dennis P. Pollow Jr, Megan A. Sylvester, Nathaniel A. Husband, Joshua A. Uhlorn, Jill Romero-Aleshire, Jennifer Uhrlaub, Janko Nikolich-Zugich, Heddwen L. Brooks, University of Arizona, Tucson, AZ</p> <p>4:00 Interleukin-21 Plays a Critical Role in Hypertension And Vascular Dysfunction 21
 Bethany L. Dale, Vanderbilt Univ, Dept of Molecular Physiology and Biophysics, Nashville, TN; Arvind Pandey, Yuahn Chen, Fanny Laroumanie, Hana Itani, Liang Xiao, Vanderbilt Univ, Div of Clinical Pharmacology, Dept of Med, Nashville, TN; Allison Norlander, Vanderbilt Univ, Dept of Molecular Physiology and Biophysics, Nashville, TN; Jason Foss, Natalia Barbaro, Justin Van Beusecum, Vanderbilt Univ, Div of Clinical Pharmacology, Dept of Med, Nashville, TN; Alp Ikizler, Aseel Alsouqi, Vanderbilt Univ, Div of Nephrology, Dept of Med, Nashville, TN; Holly M. Scott, Vanderbilt Univ, Div of Infectious Diseases, Dept of Med, Nashville, TN; Meena S. Madhur, Vanderbilt Univ, Dept of Molecular Physiology and Biophysics, Nashville, TN</p> |
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1:30–3:00 PM
Session 4 Concurrent D
Clinical Practice Clinical Science Track: Aldosterone and Primary Aldosteronism in Hypertension
Grand BD
Chairs:
 William C. Cushman, MD, FAHA, University of Tennessee College of Medicine, Memphis, Tennessee
 John M. Flack, MD, FAHA, Southern Illinois University School of Medicine, Springfield, Illinois

- 1:30 **The Potassium, Aldosterone, Blood Pressure Axis**
 David Ellison, MD, FAHA, Oregon Health Sciences University, Portland, Oregon
- 1:50 **The New Genetics of Aldosteronism**
 Celso Gomez-Sanchez, MD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
- 2:10 **Screening and Diagnosis of Aldosteronism 2018**
 David A. Calhoun, MD, FAHA, University of Alabama, Birmingham, Alabama
- 2:30 **Hyperaldosteronism as a Cause of Resistant Hypertension**
 Bryan Williams, MD, FAHA, University of Leicester, Leicester, England

Program Agenda (continued)

THURSDAY

- | | | | | | |
|------|---|----|------|---|----|
| 4:15 | Proteasome Inhibition Prevents Renal Inflammation and Hypertension by Abrogation of Dendritic Cell Autoantigen Presentation
David M Patrick, Liang Xiao, C. Wei Chen, Mingfang Ao, Annet Kirabo, David G. Harrison, Vanderbilt Univ Medical Ctr, Nashville, TN | 22 | 4:00 | Hyperglycemia and Oxidative Stress Contribute to Impaired Cerebral Autoregulation in Association with Dementia in Diabetes
Shaoxun Wang, Xiaochen He, George Booz, Richard Roman, Fan Fan, Univ of Mississippi Medical, Jackson, MS | 27 |
| 4:30 | Redox-Driven T-Lymphocyte Inflammation Sensitizes Mice to Psychological Stress-Mediated Hypertension
Cassandra M. Moshfegh, Christopher W. Collins, Allison J. Kohl, Safwan Elkhatib, Adam J. Case, University of Nebraska Medical Center, Omaha, NE | 23 | 4:15 | Susceptibility to Strokes In Spontaneously Hypertensive Rats Due to a Mutation In Stim1
Isha S. Dhande, Univ of Texas HSC, Houston, TX; Sterling C Kneedler, Yaming Zhu, Univ of Texas Health Science Ctr at Houston, Houston, TX; M. John Hicks, Scott E. Wenderfer, Michael C. Braun, Baylor Coll of Med, Houston, TX; Peter A. Doris, Univ of Texas Health Science Ctr at Houston, Houston, TX | 28 |
| 4:45 | Genetically Inducing Renal Lymphangiogenesis Prevents Angiotensin II-Induced Hypertension in Mice
Dakshnapriya Balasubramanian, Catalina A. Lopez-Gelston, Alexandra H. Lopez, Geina I. skander, Winter Tate, Emily M. Luera, Sunitha Konatham, Joseph M. Rutkowski, Brett M. Mitchell, Texas A and M Univ HSC, College Station, TX | 24 | 4:30 | Epidemiological Study Evaluating Uncontrolled Systolic Blood Pressure in Patients \geq 50 Years With Hypertension, in Relation to Stroke Risk and Current Antihypertensive Treatment Strategies (systup) – Analysis of India Cohort
Prof. Rishi Sethi, King George Medical Univ, Lucknow, India; Dr. Ashwani Mehta, Sir Ganga Ram Hosp, New Delhi, India; Dr. Viveka Kumar, Max Super Speciality Hosp, New Delhi, India | 29 |
| 5:00 | Mini Review Session: Invited Lecture: Recent Advances in our Understanding of Inflammation, Immunity & Cytokines
Ernesto Schiffrin, CM, MD, PhD, McGill University, Montreal, Canada | | 4:45 | Stem Cell-derived Extracellular Vesicles Attenuates Aging-associated Arterial Stiffness and Hypertension
Rui Feng, Chongqing Medical Univ, Chongqing, China; Mujib Ullah, Kai Chen, Lin Yi, University of Tennessee HSC, Memphis, TN; Han Lei, Chongqing Medical Univ, Chongqing, China; Zhongjie Sun, University of Tennessee HSC, Memphis, TN | 30 |
| | | | 5:00 | Thresholds for Defining Home Blood Pressure Elevation Among US Adults
Hamza Lodhi, Colby Ayers, Sandeep Das, Jarett Berry, Amit Khera, Univ of Texas Southwestern Medical Ctr, Dallas, TX; Ronald Victor, Cedar Sinai Medical Inst/ Hypertension Ctr, Los Angeles, CA; Feng-Chang Li, Univ of North Carolina at Chapel Hill, Chapel Hill, NC; Anthony Viera, Duke Univ, Durham, NC; Yuichiro Yano, Univ of Mississippi, Jackson, MS; James de Lemos, Warpen Vongpatanasin, Univ of Texas Southwestern Medical Ctr, Dallas, TX | 31 |
| | | | 5:15 | Reconstitution of Autophagy Ameliorates Endothelium-Dependent Relaxation, Vascular Smooth Muscle Calcium Sensitization, & Arterial Stiffening in Spontaneously Hypertensive Rats
Cameron G. McCarthy, Camilla F. Wenceslau, Fabiano B. Calmasini, Nicole S. Klee, R. Clinton Webb, Augusta University, Augusta, GA | 32 |

3:30–5:30 PM

Session 5 Concurrent B

Cerebrovascular Disease, Stroke, and Aging
Columbus EF

Chairs:

John Bisognano, MD, PhD, FAHA, University of Rochester Medical Center, Rochester, New York
Fan Fan, MD, University of Mississippi Medical Center, Jackson, Mississippi

Oral Abstract Presentations

- | | | |
|------|---|----|
| 3:30 | Cellular Mechanisms of Blood-Brain Barrier Disruption in Ang II-Induced Hypertension
Monica M Santisteban, Giuseppe Faraco, Diane Lane, Gianfranco Racchumi, Steven Segarra, Samantha Schaeffer, Virginia Cipollini, Josef Anrather, Costantino Iadecola, Weill Cornell Medical College, New York, NY | 25 |
| 3:45 | High In-Hospital Systolic Blood Pressure Variability and Poor Functional Outcomes in Primary Intracerebral Hemorrhage Patients
Jennifer R. Meeks, Arvind B. Bambhroliya, Ellie G. Meyer, Kristen B Slaughter, Christopher J. Fraher, Ritvij Bowry, Wamda O. Ahmed, Anjail Z. Sharrief, Jon E. Tyson, Charles C. Miller, Univ of Texas McGovern Medical Sch, Houston, TX; Babar Khan, Indiana Univ Sch of Med, Indianapolis, IN; Steven Warach, Dell Medical Sch, Austin, TX; Louise D. McCullough, Sean I. Savitz, Farhaan S. Vahidy, Univ of Texas McGovern Medical Sch, Houston, TX | 26 |

Program Agenda (continued)

3:30–5:30 PM

**Session 5 Concurrent C
Renin Angiotensin System**

Columbus KL

Chairs:

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

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

Oral Abstract Presentations

- 4:00 **Identification of a Primary Renal AT2 Receptor Defect in Spontaneously Hypertensive Rats (SHR)** **33**
Nancy L. Howell, Brandon Ambrose Kemp, Susanna R. Keller, John J. Gildea, Univ of Virginia, Charlottesville, VA; Weijian Shao, Tulane Univ, New Orleans, LA; L. Gabriel Navar, Tulane Univ, New Orleans, VA; Robert M. Carey, Univ of Virginia, Charlottesville, VA
- 4:15 **Resilience of Isolated, Perfused Cerebral Penetrating Microarterioles to Angiotensin II (Ang II Contractions Depends on Local Generation of Prostaglandin D2 (PGD2))** **34**
Lingli Li, EnYin Lai, Zaiming Luo, Georgetown Univ Div of Nephrology, Washington, DC; Robin Davisson, Cornell Univ, Ithica, NY; William Welch, Christopher S WILCOX, Georgetown Univ Div of Nephrology, Washington, DC
- 4:30 **Increasing Renal AcSDKP by Eliminating the ACE N-domain Blocks Renal Inflammation and Sodium Retention during Diabetic Nephropathy** **35**
Jorge F. Giani, Masahiro Eriguchi, Ellen A. Bernstein, Luciana C. Veiras, Zakir Khan, Duo Y. Cao, Cedars-Sinai Medical Center, Los Angeles, CA; Sebastien Fuchs, Western Univ of Health Sciences, Pomona, CA; Alicia A. McDonough, Keck Sch of Med of USC, Los Angeles, CA; Jorge E. Toblli, Hosp Aleman, Buenos Aires, Argentina; Romer A. Gonzalez-Villalobos, Kenneth E. Bernstein, Cedars-Sinai Medical Center, Los Angeles, CA
- 4:45 **Interference with PPAR γ in the Endothelium Produces Endothelial Dysfunction in the Cerebral Circulation in Response to Activation of the Endogenous Renin-Angiotensin System** **36**
Anand R. Nair, Larry N. Agbor, Masashi Mukohda, Xuebo Liu, Chunyan Hu, Jing Wu, Curt D. Sigmund, Univ of Iowa, Iowa City, IA

- 5:00 **Global ACE2 Over-expression Is Protective Against a Dysfunctional Brain-gut-lung Axis In Hypoxia-induced Pulmonary Hypertension** **37**
Ravindra K. Sharma, Aline C. Oliveira, Tao Yang, Victor Aquino, Gilberto O. Lobaton, Andrew J. Bryant, Eric G. Krause, Annette D. de Kloet, Elaine M Richards, Mohan K. Raizada, University of Florida, Gainesville, FL

- 5:15 **The Dual Role of B-cell Lymphoma/Leukemia 10 in Angiotensin II-induced Renal Damage** **38**
Lajos Markó, Experimental Clinical Rsrch Ctr&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Joon-Keun Park, Hannover Medical Sch, Hannover, Germany; Norbert Henke, Helios Clinic Damp, Berlin, Germany; Song Rong, Transplantation Ctr, Zunyi Medical Coll&Nephrology, Hannover Medical Sch, Zunyi, China; András Balogh, Experimental Clinical Rsrch Ctr&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Samuel Klamer, Experimental Clinical Rsrch Ctr, Berlin, Germany; Nicola Wilck, Experimental Clinical Rsrch Ctr&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Jürgen Ruland, Inst for Clinical Chemistry and Biochemistry, Klinikum rechts der Isar, Technical Univ of Munich, Munich, Germany; Friedrich C. Luft, Experimental Clinical Rsrch Ctr&Max Delbruck Ctr for Molecular Med, Berlin, Germany; Ralf Dechend, Experimental Clinical Rsrch Ctr&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité&10Helios Clinic Berlin-Buch, Berlin, Germany; Dominik N. Müller, Experimental Clinical Rsrch Ctr&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité&Max Delbruck Centr for Molecular Med, Berlin, Germany

3:30–5:30 PM

**Session 5 Concurrent D
Clinical Practice Clinical Science Track:
Managing Hypertension in At-Risk-Populations**
Grand BD

Chairs:

Aldo Peixoto, MD, Yale School of Medicine, New Haven, Connecticut
Barry Materson, MD, MBA, FAHA, University of Miami School of Medicine, Miami, Florida

- 3:30 **Goals of Hypertension Management in Patients with Chronic Kidney Disease**
Sandra J. Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota

THURSDAY

Program Agenda (continued)

THURSDAY/FRIDAY

- 3:50 **Strategies for Control of Hypertension in Renal Transplant Recipients**
Michelle A. Josephson, MD, University of Chicago, Chicago, Illinois
- 4:10 **State-of-the-Art on Management of Pregnancy-Associated Hypertension**
Mark Santillan, MD, PhD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
- 4:30 **Managing Cardiovascular Complications in Patients Treated with VEGF Inhibitors and Other Chemotherapeutic Agents**
A. H. Jan Danser, PhD, Erasmus University Medical Center, Rotterdam, The Netherlands
- 4:50 **Treating Post Stroke Hypertension: Thresholds and Goals**
José Biller, MD, FAAN, FACP, FAHA, Loyola University Medical Center, Maywood, Illinois
- 5:10 **Q&A**
Panelists:
Sandra J. Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota
Michelle A. Josephson, MD, University of Chicago, Chicago, Illinois
Mark Santillan, MD, PhD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
A. H. Jan Danser, PhD, Erasmus University Medical Center, Rotterdam, The Netherlands
José Biller, MD, FAHA, Loyola University Medical Center, Maywood, Illinois

5:30–7:30 PM
Poster Session 1
Trainee Onsite Poster Competition with Reception
Riverside East

Posters P109-P237 will be presented during this session. It will also feature an on-site poster competition. All presenters who have not received a travel award are eligible for the competition. See pages 43 for details.

FRIDAY, SEPTEMBER 7

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

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

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

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

Con:
George Bakris, MD, FAHA, University of Chicago, Chicago, Illinois

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

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

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

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

9:40 **Q&A**

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

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

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

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

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

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

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

11:15 **Will the New Guidelines Affect Cognition in Adults?**
Jeff D. Williamson, MD, Wake Forest Baptist Medical Center, Winston-Salem, North Carolina

11:35 **BP and Cognition in Children and Adolescents**
Marc Lande, MD, MPH, University of Rochester Medical Center, Rochester, New York

Program Agenda (continued)

Noon-1:00 PM

Grand AC

Expert Theater

Long-Term Results of Treatment Across a Broad Range of Patients With Type 2 Diabetes

Speaker:

Javed Butler, MD, MPH, MBA

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

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

OR Lunch on Your Own

1:30–3:00 PM

Poster Session 2

Riverside East

Posters P238-P321 will be presented during this session. See pages 43 for details.

1:30–3:00 PM

Session 10

Primary Care Track: The Evolving Landscape of Blood Pressure Guidelines – Part 1

Grand BD

Chairs:

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

1:30 **Welcome and Introduction to Primary Care Symposia: Goals and Objectives**

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

1:35 **What do the 2017 ACC/AHA Guidelines Actually Say?**

Sandra J. Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota

1:55 **Understanding the Data that Drove the 2017 ACC/AHA Guidelines**

Paul Muntner, PhD, MHSc, FAHA, University of Alabama, Birmingham, Alabama

2:10 **The Difference between Blood Pressure Targets and Performance Measures: Brief Explanation of the Epidemiology of Achieved Blood Pressure**

Brent M. Egan, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina

2:30 **The American College of Physicians (ACP) and American Academy of Family Physicians (AAFP) Perspective**

Marie Brown, MD, Rush University Medical Center, Chicago, Illinois

2:50 **Q&A**

Panelists:

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

3:00–3:30 PM

Refreshment Break and Exhibits

Grand Foyer

3:30–4:00 PM

Session 11

The Arthur C. Corcoran Memorial Lecture

Grand CDEF

Chair:

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

3:30 **Sleep and Blood Pressure Control – Implications for Pathophysiology and Therapy**

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

4:00–5:30 PM

Session 11 Concurrent A

Gender Differences and Sex Hormones

Columbus ABCD

Chairs:

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

Oral Abstract Presentations

4:00 **Differential Expression of miR-146b-5p Modulates Sex-Specific Cardiac Phenotypes in a Rat Model of Chronic Kidney Disease** 39

Mark Paterson, Alison J. Kriegel, Medical College Wisconsin, Milwaukee, WI

4:15 **Vascular Dysfunction and Androgen Deficiency – Insights From Children With Hypospadias** 40

Angela K. Lucas-Herald, Rheure Alves-Lopes, Laura Haddow, Inst for Cardiovascular and Medical Sciences, BHF Ctr for Res Excellence, Univ of Glasgow, Glasgow, United Kingdom; Stuart O'Toole, Syed Basith Amjad, Martyn Flett, Mairi Steven, Boma Lee, Dept of Paediatric Surgery, Royal Hosp for Children, Glasgow, United Kingdom; Augusto C Montezano, Inst for Cardiovascular and Medical Sciences, BHF Ctr for Res Excellence, Univ of Glasgow, Glasgow,

FRIDAY

Program Agenda (continued)

FRIDAY

- United Kingdom; Syed Faisal Ahmed, Developmental Endocrinology Res Group, Sch of Med, Dentistry and Nursing, Univ of Glasgow, Glasgow, United Kingdom; Rhian M. Touyz, Inst for Cardiovascular and Medical Sciences, BHF Ctr for Res Excellence, Univ of Glasgow, Glasgow, United Kingdom
- 4:30 **Brain Cytochrome P450 1B1-Testosterone Generated Metabolite 6Beta-hydroxytestosterone Contributes to Angiotensin II-induced Increased Sympathetic Outflow and Blood Pressure** **Purnima Singh**, SaeRam Oh, Shubha Ranjan Dutta, Chi Young Song, Kafait U. Malik, Univ of Tennessee, MEMPHIS, TN 41
- 4:45 **Gender Differences in Response to Chronic Angiotensin-(1-7) Treatment in Obesity** **Melissa White**, Amanda J. Miller, Justin Loloi, Sarah Bingaman, Amy Christine Arnold, Penn State Coll of Med, Hershey, PA 42
- 5:00 **Targeting The Angiotensin Type 2 Receptor With Relaxin Confers Protection Against Renal Fibrosis And Vascular Dysfunction In Female Stroke Prone-Spontaneously Hypertensive Rats** **Giannie Barsha**, Edmund Kwok, Katrina M. Mirabito Colafella, Lucinda M Hilliard, Tracey Gaspari, Robert E. Widdop, Chrishan S. Samuel, Katherine M Denton, Monash Univ, Melbourne, Australia 43
- 5:15 **Purinoceptor-dependent Regulation of Sodium Excretion is Sexually Dimorphic** **Eman Y. Gohar**, Malgorzata Kasztan, Shali Zhang, Edward W. Inscho, David M. Pollock, Univ of Alabama at Birmingham, Birmingham, AL 44
- 4:15 **Cardiac Mitochondria are Impaired After Transient Neonatal High Oxygen Exposure in a Rat Model of Prematurity-Related Condition** **Daniela Ravizzoni Dartora**, Ying He, Muhammad Oneeb Rehman Mian, Alyson Deprez, Camille Girard-Bock, Anik Cloutier, Dept of Pediatrics, Univ de Montréal and CHU Sainte-Justine Res Ctr, Montréal, QC, Canada; Gael Cagnone, Perrine Gaub, Jean-Sebastien Joyal, Dept of Pharmacology and Physiology, Univ de Montréal and CHU Sainte-Justine Res Ctr, Montréal, QC, Canada; Thuy Mai Luu, Dept of Pediatrics, Univ de Montréal and CHU Sainte-Justine Res Ctr, Montréal, QC, Canada; Anne Monique Nuyt, Dept of Pediatrics, Dept of Pharmacology and Physiology, Univ de Montréal and CHU Sainte-Justine Res Ctr, Montréal, QC, Canada 46
- 4:30 **Sorting Nexin 19: A Novel & Key Player in Renal Dopamine D1R Regulation** **Andrew C. Tiu**, Albert Einstein Medical Ctr, Philadelphia, PA; Jian Yang, Laureano D. Asico, Prasad Konkalmatt, Xiaoyan Wang, Pedro A. Jose, Van Anthony M. Villar, George Washington Univ, Washington, DC 47
- 4:45 **Impact of New Clinical Practice Guidelines on Cardiovascular Disease Risk Assessment in an Obese Pediatric Population** **Edem Binka**, Philip Spevak, Lauren Dibert, Tammy McLoughlin Brady, Johns Hopkins Hosp, Baltimore, MD 48
- 5:00 **Endothelial-derived Microparticles as Biomarkers and Mediators of Endothelial Cell Injury in VEGF inhibitor-treated Cancer Patients: Implications in Hypertension** **Karla B. Neves**, Francisco J. Rios, Univ of Glasgow, Glasgow, United Kingdom; Martin McLeod, Experimental Cancer Med Ctr, Glasgow, United Kingdom; Judith Dixon Hughes, Cancer Res UK Glasgow Clinical Trials Unit, Glasgow, United Kingdom; Robert Jones, Jeff Evans, Augusto Montezano, Rhian M. Touyz, Univ of Glasgow, Glasgow, United Kingdom 49
- 5:15 **Hypertensive Urgency: An Emergency Department Pipeline to Primary Care Pilot Study** **Antonio Giaimo**, Stephen Huot, Angela Kang, Yale Univ, New Haven, CT 50

4:00–5:30 PM

Session 11 Concurrent B

Hypertension Early Career Oral Awards Session

Columbus EF

Chairs:

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

Christian Delles, MD, FAHA, University of Glasgow Cardiovascular Research Center, Glasgow, Scotland

Oral Abstract Presentations

- 4:00 **Sox6 Has Protective Role during Renal Artery stenosisS Induced Hypertension** **Mohammad Saleem**, Liang Xiao, Kandi Horton, Vanderbilt University Medical Center, Nashville, TN; Conrad P. Hodgkinson, Dept of Med. Duke Univ Medical Ctr, Durham, NC; Jose A. Gomez, Vanderbilt University Medical Center, Nashville, TN 45

Program Agenda (continued)

4:00–5:30 PM

Session 11 Concurrent C

Renal Injury

Columbus KL

Chairs:

William J. Welch, PhD, FAHA, Georgetown University Medical Center, Washington, DC

Aron M. Geurts, PhD, Medical College of Wisconsin, Milwaukee, Wisconsin

Oral Abstract Presentations

- 4:00 **High Salt Enhances ROS and Ang II Contractions of Glomerular Afferent Arterioles from Mice with Reduced Renal Mass** **51**
Lingli Li, EnYin Lai, Zaiming Luo, Glenn Solis, Margarida Mendonca, Georgetown Univ Div of Nephrology, Washington, DC; Kathy Griendling, Emory Univ, Atlanta, GA; Anton Wellstein, William Welch, Christopher S. Wilcox, Georgetown Univ Div of Nephrology, Washington, DC
- 4:15 **Role of Dopamine D2 Receptors in the Regulation of Cell Proliferation in Renal Injury** **52**
Megha Kumar, George Washington University, Washington, DC; Laureano Asico, Prasad Konkalmatt, George Washington University, Washington, DC; Zach Freyberg, University of Pittsburg, Washington, PA; Pedro A Jose, George Washington University, Washington, DC; Ines Armando, George Washington University, Washington, DC
- 4:30 **Dietary Sodium Restriction versus Diuretics for Salt-sensitive Hypertension in Chronic Kidney Disease** **53**
Dominique M. Bovée, Alexander H. Danser, Robert Zietse, Ewout J. Hoorn, Erasmus Medical Ctr, Rotterdam, Netherlands
- 4:45 **Tissue-specific Effects of Targeted Mutation of Mir29b1 in Rats** **54**
Hong Xue, Fudan Univ, Shanghai, China; Guangyuan Zhang, Aron M Geurts, Kristie Usa, David M Jensen, Yong Liu, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- 5:00 **ND-13, a DJ-1-derived Peptide, Protects against the Renal Fibrosis and Inflammation Associated with Unilateral Ureter Obstruction** **55**
Carmen De Miguel, University of Alabama at Birmingham, Birmingham, AL; Mitchell Saludes, Laureano D Asico, Patricia S. Latham, The George Washington Univ Sch of Med and Health Sciences, Washington, DC; Daniel Offen, The Felsenstein Medical Res Ctr, Tel Aviv, Israel; Pedro A Jose, The George Washington Univ Sch of Med and Health Sciences, Washington, DC; Santiago Cuevas, Children's Natl Health System, Washington, DC

- 5:15 **Knockout of Dual-Specificity Protein Phosphatase 5 Protects Against Hypertension Induced Chronic Kidney Disease** **56**
Chao Zhang, Xiaochen He, Shaoxun Wang, Richard J. Roman, George Booz, Fan Fan, Univ of MS Medical Ctr, Jackson, MS

3:30–5:30 PM

Session 11 Concurrent D

Primary Care Track:

The Evolving Landscape of Blood Pressure Guidelines Part 2: Areas of Controversy

Grand BD

Chairs:

Karen Griffin, MD, FAHA, Loyola University Medical Center, Chicago, Illinois

Susan Steigerwalt, MD, FAHA, University of Michigan, Ann Arbor, Michigan

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

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

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

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

- 4:50 **Case Based Discussion Panel on Areas of Controversy in the Guidelines**

Chair:

F. Wilford Germino, MD, FACP, FAHA, Orland Primary Care Specialists, Chicago, Illinois

Panelists:

George Bakris, MD, FAHA, University of Chicago, Chicago, Illinois

Matthew Sorrentino, MD, FAHA, University of Chicago Medicine, Chicago, Illinois

Stephen K. Williams, MD, MS, New York University School of Medicine, New York, New York

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

Sandra J. Taler, MD, FAHA, Mayo Clinic, Rochester, Minnesota

FRIDAY

Program Agenda (continued)

5:30-6:45 PM

Session 12

Awards Session

Grand CDEF

Chairs:

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

- 5:30 **Mid-Career Award for Research Excellence**
Jennifer C. Sullivan, PhD, FAHA, Augusta University,
Augusta, Georgia
- 5:45 **The Harry Goldblatt Award for New Investigators**
Amy C. Arnold, PhD, FAHA, Pennsylvania State
University College of Medicine, Hershey, Pennsylvania
- 6:00 **The British and Irish Hypertension Society Young
Investigator Award**
Luca Faconti, King's College London, England
- 6:15 **High Blood Pressure Research Council of
Australia Student Oral Award**
Ashenafi Haileyesus Betrie, University of Melbourne,
Victoria, Australia
- Stephanie Watts Career Development Award Competition**
- 6:30 **Stephanie Watts Career Development Award
Competition Finalist**
Katrina M. Mirabito Colafella, PhD, Monash University,
Victoria, Australia
- 6:35 **Stephanie Watts Career Development Award
Competition Finalist**
Nirupama Ramkumar, MD, MPH, University of Utah,
Salt Lake City, Utah
- 6:40 **Stephanie Watts Career Development Award
Competition Finalist**
Jennifer L. Sones, DVM, PhD, Louisiana State
University School of Veterinary Medicine,
Baton Rouge, Louisiana,

7:00-11:00 PM

Trainee Advocacy Mixer

Crystal Ballroom

SATURDAY, SEPTEMBER 8

6:00 AM

Registration/Information Desk Open, Exhibits and Refreshments

Grand Foyer

7:30-9:00 AM

Session 13 Concurrent A

Vascular Biology

Grand CDEF

Chairs:

Patrick J. Pagano, PhD, FAHA, University of Pittsburgh,
Pittsburgh, Pennsylvania
Daniela Carnevale, PhD, FAHA, "Sapienza" University of
Rome and IRCCS Neuromed, Italy

Oral Abstract Presentations

- 7:30 **BBSome In Smooth Muscle is Required
for the Regulation of Vascular Function** 57
John J. Reho, Deng-Fu Guo, Donald Morgan,
Kamal Rahmouni, Univ Iowa, Iowa City, IA
- 7:45 **Novel Mechanisms at Immune-vascular
Interfaces Regulate Myogenic Tone of
Resistance Arteries and Induce
Hypertension in Mice** 58
Daniela Carnevale, Sapienza University of
Rome and IRCCS Neuromed, Pozzilli, Italy;
Daniele Iodice, Iolanda Vinciguerra, IRCCS
Neuromed, Pozzilli, Italy; Marialuisa Perrotta,
Sapienza University of Rome, Pozzilli, Italy;
Giuseppe Lembo, Sapienza University of
Rome and IRCCS Neuromed, Pozzilli, Italy
- 8:00 **Local Endothelial and Smooth Muscle
Genomic Instability Reproduce Specific
Features of Cardiovascular Aging** 59
Paula Katherine Bautista-Niño, Eliana
Portilla-Fernandez, Erasmus MC, Rotterdam,
Netherlands; Alexandra Santu, Catherine
Shanahan, King's Coll, London, United
Kingdom; Anton Roks, Erasmus MC,
Rotterdam, Netherlands
- 8:15 **Mitochondrial Deacetylase Sirt3 in
Endothelial and Smooth Muscle Cells
Protects from Vascular Dysfunction
and Attenuates Hypertension** 60
Anna Dikalova, Arvind Pandey, Liang Xiao,
Hana Itani, Tatiana Sidorova, Vanderbilt
University Medical Ctr, Nashville, TN; Eric
Verdin, Gladstone Insts, Univ of California,
San Francisco, CA; Johan Auwerx, Ecole
Polytechnique Fédérale de Lausanne,
Lausanne, Switzerland; David G Harrison,
Sergey I. Dikalov, Vanderbilt University
Medical Ctr, Nashville, TN

Program Agenda (continued)

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

8:45 **Renal Hydrogen Peroxide Prevents Salt-Sensitive Hypertension**
 Santiago Cuevas, Laureano D. Asico, Pedro A. Jose, **Prasad R. Konkalmatt**, The George Washington Univ, Washington, DC

7:30–9:00 AM

Session 13 Concurrent B

Renal Hemodynamics and Tubular Transport

Columbus EF

Chairs:

Pablo A. Ortiz, PhD, Henry Ford Health System, Detroit, Michigan

Casandra M. Monzon, PhD, Case Western Reserve University, Cleveland, Ohio

Oral Abstract Presentations

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

7:45 **Purinergic P2X1 and P2X7 Receptors Activation Attenuate Angiotensin AT1 Receptors Dominance in Regulating the Preglomerular Renal Microcirculation in Angiotensin II Dependent Hypertension**
Supaporn Kulthinee, Weijian Shao, Tulane Univ, New Orleans, LA; Martha Franco, Insto Nacional de Cardiologia Ignacio Chavez, Mexico City, Mexico; L. Gabriel Navar, Tulane Univ, New Orleans, LA

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

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

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

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

7:30–9:00 AM

Session 13 Concurrent C

Hypertension Clinical-Pathological Conference

Columbus KL

Chairs:

Anna Dominiczak, MD, FAHA, Editor-in-Chief of *Hypertension*

Garry L. Jennings, MD, FAHA, Associate Editor of *Hypertension*

7:30 **Case I: Case of Paroxysmal Hypertension associated with Presyncope**

James Matthew Luther, MD, Vanderbilt University Medical Center

John Oates, MD, Vanderbilt University Medical Center

8:15 **Case II: Masked Hypertension Contributing to Severe Hypertensive Heart Disease with Left Ventricular Outflow Tract Obstruction – Not a Benign Phenomenon**

Alan C Cameron, BSc (Hons), Institute of Cardiovascular and Medical Sciences, University of Glasgow

Christian Delles, MD, Institute of Cardiovascular and Medical Sciences, University of Glasgow, BHF Glasgow Cardiovascular Research Centre

9:00–9:30 AM

Grand CDEF

Session 13

The Donald Seldin Lecture

Chair:

Pablo A. Ortiz, PhD, Henry Ford Health System, Detroit, Michigan

9:00 **The Kidney Potassium Switch and Blood Pressure**

Paul A. Welling, MD, FAHA, University of Maryland School of Medicine, Baltimore, Maryland

7:30–9:30 AM

Session 13 Concurrent D

Primary Care Track:

Emerging Issues in Hypertension Management

Grand BD

Chair:

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

67 7:30 **How Do Environmental Factors Effect Blood Pressure?**

Robert D. Brook, MD, FAHA, University of Michigan, Ann Arbor, Michigan

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SATURDAY

Program Agenda (continued)

- 7:50 **Treatment of Hypertension in the Women Considering Conception**
Mark Santillan, MD, PhD, FACOG, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
- 8:10 **Remote Monitoring and Patient Self-Management – Is it the Future of BP Management?**
Debbie Cohen, MD, University of Pennsylvania, Philadelphia, Pennsylvania
- 8:30 **Management of Hyper-and-Hypo-Kalemia in Treated Hypertensive Patients**
Matthew Weir, MD, University Maryland School of Medicine, Baltimore, Maryland
- 8:50 **Surgical and Percutaneous Interventions in Management of Hypertension**
Raymond Townsend, MD, FAHA, University of Pennsylvania, Philadelphia, Pennsylvania
- 9:10 **Q&A**
Panelists:
Robert D. Brook, MD, FAHA, University of Michigan, Ann Arbor, Michigan
Mark Santillan, MD, PhD, FACOG, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
Debbie Cohen, MD, University of Pennsylvania, Philadelphia, Pennsylvania
Matthew Weir, MD, University Maryland School of Medicine, Baltimore, Maryland
Raymond Townsend, MD, FAHA, University of Pennsylvania, Philadelphia, Pennsylvania

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

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

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

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

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

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

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

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

Oral Abstract Presentations

- 10:30 **Antihypertensive Medication Treatment Regimens in SPRINT** 69
Jordan B. King, Kaiser Permanente Colorado, Aurora, CO; Andrew Moran, The Columbia Hypertension Ctr, Columbia Univ Medical Ctr, Columbia Univ Medical Ctr, New York, NY; Catherine Derington, Kaiser Permanente Colorado, Aurora, CO; Jennifer Herrick, Dept of Population Health Sciences, Sch of Med, Univ of Utah, Salt Lake City, UT; Ian Kronish, The Columbia Hypertension Ctr, Columbia Univ Medical Ctr, New York, NY; Barry Stults, Dept of Internal Med, Sch of Med, Univ of Utah, Salt Lake City, UT; Daichi Shimbo, The Columbia Hypertension Ctr, Columbia Univ Medical Ctr, New York, NY; Paul Muntner, Dept of Epidemiology, Univ of Alabama at Birmingham, Birmingham, AL; Tom Greene, Dept of Population Health Sciences, Sch of Med, Univ of Utah, Salt Lake City, UT; William Cushman, Preventive Med Section, Veterans Affairs Medical Ctr; Dept of Preventive Med, Univ of Tennessee Health Science Ctr, Memphis, TN; William Weintraub, MedStar Washington Hosp Ctr, Washington, DC; Adam Bress, Dept of Population Health Sciences, Sch of Med, Univ of Utah, Salt Lake City, UT
- 10:45 **Adherence to Antihypertensive Drugs: Insights from the SPYRAL HTN Trials and Implications for Hypertension Trial Design** 70
Michael A. Weber, SUNY Downstate Coll of Med, New York, NY; David Kandzari, Piedmont Heart Inst, Atlanta, GA; Michael Böhm, Felix Mahfoud, Klinik für Innere Med III, Homburg/Saar, Germany; Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi, Japan; Tony Walton, Ingrid Hopper, The Alfred Hosp, Melbourne, Australia; Manesh Patel, Crystal Tyson, Duke Univ Medical Ctr, Durham, NC; Chandan M. Devireddy, Janice P. Lea, Emory Univ Sch of Med, Atlanta, GA; Joachim Weil, Tolga Agdirlioglu, Sana Cardiomed Heart Ctr, Luebeck, Germany; Markus Meyer, Experimental and Clinical Toxicology, Saarland Univ, Saarland, Germany; Martin Fahy, Medtronic PLC, Santa Rosa, CA; Raymond Townsend, Sch of Med, Univ of Pennsylvania, Philadelphia, PA

Program Agenda (continued)

11:00 **Increased Short-Term Blood Pressure Variability in Patients with Isolated Systolic Hypertension** 71
Alejandro De La Sierra, Hospital Mutua Terrassa, Terrassa, Spain; Gianfranco Parati, HOSPITAL San Luca, Milano, Italy; Jose R. Banegas, Juan J. de la Cruz, Univ Autónoma, Madrid, Spain; Manuel Gorostidi, Hosp Central Asturias, Oviedo, Spain; Ernest Vinyoles, CAP la Mina, Barcelona, Spain; Julian Segura, Luis M. Ruilope, Hospital12 de Octubre, Madrid, Spain

11:15 **Return on Investment of Self-Measured Blood Pressure: An Economic Model from the Insurers' Perspective** 72
Alejandro Arrieta, Florida International University, Miami, FL; John Woods, Indiana University Purdue University, Indianapolis, Indianapolis, IN; Gregroy Wozniak, Stavros Tsipas, Michael Rakotz, American Medical Association, Chicago, IL; Stephen J. Jay, Indiana University Purdue University, Indianapolis, IN

11:30 **Sleep Duration and 24-hour Ambulatory Blood Pressure in Adults not on Antihypertensive Medications** 73
Jordana B. Cohen, Rachel Shulman, Debbie L. Cohen, Univ of Pennsylvania, Philadelphia, PA; Michael A. Grandner, Univ of Arizon, Tucson, AZ; Thorarinn Gislason, Univ of Iceland, Reykjavik, Iceland; Allan I. Pack, Samuel T. Kuna, Raymond R. Townsend, Univ of Pennsylvania, Philadelphia, PA

11:45 **Non-adherence To Prescribed Blood Pressure Lowering Drugs In Patients With Suspected "Resistant" Hypertension: A Call For Rigorous Adherence Testing** 74
Marcel Ruzicka, Swapnil Hiremath, Ottawa Hosp, Ottawa, ON, Canada; Frans H. Leenen, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

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

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

Oral Abstract Presentations

10:30 **Does the Benefit From Treating to Blood Pressure Targets Vary With Age?** 75
George Roush, Kevin Singh, Ayla Zubair, NYU Sch of Med, New York, NY; William Kostis, Rutgers Robert Woods Johnson Medical Sch, New Brunswick, NJ; Domenic Sica, Dept of Med and Pharmacology, Virginia Commonwealth Univ, Richmond, VA, Richmond, VA; John Kostis, Rutgers Robert Woods Johnson Medical Sch, New Brunswick, NJ

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

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

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

SATURDAY

Program Agenda (continued)

- | | | | | | |
|-------|--|----|-------|--|----|
| 11:30 | Long-lasting RNAi Therapeutics Targeting Angiotensinogen Induces a Robust and Durable Antihypertensive Effect
Estrellita Uijl , Erasmus MC, Rotterdam, Netherlands; Katrina M. Mirabito Colafella, Monash Univ, Melbourne, Australia; Richard van Veghel, René de Vries, Ingrid M. Garrelds, Ewout J. Hoorn, Erasmus MC, Rotterdam, Netherlands; Marko Poglitsch, Attoquant Diagnostics, Vienna, Austria; Jae Kim, Don Foster, Alnylam Pharmaceuticals, Cambridge, MA; A. H. Jan Danser, Erasmus MC, Rotterdam, Netherlands | 79 | 11:15 | Selective Renal Afferent Denervation Enhances Diuretic and Natriuretic Response to Glucagon-like Peptide-1 in Rats With Heart Failure
Kenichi Katsurada , Neeru M. Sharma, UNMC, Omaha, NE; Hong Zheng, Xuefei Liu, USD, Vermillion, SD; Kaushik Patel, UNMC, Omaha, NE | 84 |
| 11:45 | Characterization of Blood Pressure Response to Spironolactone in Patients With Resistant Hypertension using Electronic Medical Records
Megan M. Shuey , Hui Nian, Chang Yu, James M. Luther, Nancy J. Brown, Vanderbilt Univ Medical Ctr, Nashville, TN | 80 | 11:30 | Renal and Neural Mechanisms of Age-Related Hypertension
Alissa A. Frame , Richard D. Wainford, Boston Univ, Boston, MA | 85 |
| | | | 11:45 | Neuroanatomical Basis of PVN MC4R-expressing Neurons for Sympathetic Cardiovascular Control
Uday Singh , Brandon A. Toth, Kevin C. Davis, Kenji Saito, Donald A. Morgan, Kamal Rahmouni, Huxing Cui, The Univ of Iowa, Iowa City, IA | 86 |

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

Chairs:

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

Oral Abstract Presentations

- | | | |
|-------|--|----|
| 10:30 | Renal Sensory Nerves Increase Blood Pressure and Sympathetic Nerve Activity in 2-Kidney 1-Clip Hypertensive Mice
Jason Ong , Alan F Sved, Roderick J. Tan, Brittney M. Rush, Marcelo D. Carattino, Sean D. Stocker, University of Pittsburgh, Pittsburgh, PA | 81 |
| 10:45 | Intrarenal NaCl Boli Cause Longlasting Inhibition of Renal Sympathetic Nerve Activity (RSNA)
Martin Hindermann, Medical Dept 4 (FAU), Erlangen, Germany; Kristina Rodionova, Medical Dept 4 (FAU &PMU), Erlangen and Nuremberg, Germany; Amelie Dietz, Medical Dept 4 (FAU), Erlangen, Germany; Tilmann Ditting, Christian Ott, Medical Dept 4 (FAU &PMU), Erlangen and Nuremberg, Germany; Roland Schmieder, Kerstin Amann, Medical Dept 4 (FAU), Erlangen, Germany; Roland Veelken , Medical Dept 4 (FAU &PMU), Erlangen and Nuremberg, Germany | 82 |
| 11:00 | Role of Alpha2a-adrenoceptors in the Development of Hypertensive Nephropathy
Johannes Stegbauer , Masudur Rahman, Mina Yakoub, Henning Hoch, Oliver Vonend, Lars C. Rump, Lydia Hering, Heinrich-Heine-Univ, Düsseldorf, Germany | 83 |

10:00 AM–Noon

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

Chairs :

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

- | | | |
|-------|--|----|
| 10:00 | Determining Adequacy of BP Control: Using Appropriate Technique and Integrating In and Out of Office Measurements
Daichi Shimbo, MD, Columbia University Medical Center, New York, New York | 81 |
| 10:25 | Management of Resistant Hypertension: Have We Learned Anything New?
David A. Calhoun, MD, FAHA, University of Alabama, Birmingham, Alabama | 82 |
| 10:45 | Implementation of Pediatric Guidelines for Hypertension Management
Joshua A. Samuels, MD, MPH, FAHA, McGovern Medical School at UT Health, Houston, Texas | 83 |
| 11:05 | Q&A | |
| 11:15 | Case 1: Presented by Michael E. Fitzgerald, MD, Dupage Medical Group, Naperville, Illinois
Chair:
William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington
Panelists:
Jan Basile, MD, FAHA, Medical University of South Carolina, Charleston, South Carolina
Louis Kuritzky, MD, University of Florida College of Medicine, Gainesville, Florida
Matthew Weir, MD, University Maryland School of Medicine, Baltimore, Maryland
Steven A. Yarows, MD, FAHA, University of Michigan Health System, Chelsea, Michigan | |

SATURDAY

Program Agenda (continued)

11:35 **Case 2: Presented by William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington**

Panelists:

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

11:55 **Closing Comments**

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

Noon-1:30 PM

Satellite Symposium

Renal Denervation and Blood Pressure Control: A Clinical Trial Update

Grand AC

Chairs:

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

Faculty:

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

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

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

Noon-1:30 PM

Lunch on Your Own

1:30-3:00 PM

Poster Session 3

Riverside East

Posters P322-P403 will be presented during this session. See pages 43 for details.

1:30-3:00 PM

Session 15

Clinical Practice Clinical Science: Taking Hypertension into The Community

Grand BD

Chair:

John B. Kostis, MD, FAHA, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

Part One: The Barbershop

1:30 **Cluster Random Blood Pressure Reduction in Black Barbershops**

Ronald G. Victor, MD, FAHA, Cedars Sinai Medical Center, Los Angeles, California
Ciantel A. Blyler, PharmD, Cedars Sinai Medical Center, Los Angeles, California

Barber Video

2:00 **Q&A**

Panelists:

Ronald G. Victor, MD, FAHA, Cedars Sinai Medical Center, Los Angeles, California
Ciantel A. Blyler, PharmD, Cedars Sinai Medical Center, Los Angeles, California

Part Two: Telemonitoring, Self-Monitoring, and BP Control

2:15 **The Role of Telemonitoring in Improving BP Control**

Hayden Bosworth, PhD, Duke University School of Medicine, Durham, North Carolina

2:30 **Telemonitoring vs Self-Monitoring in BP Control: Does it make a Difference?**

Bryan Williams, MD, FRCP, FESC, FAHA, University of Leicester, Leicester, England

2:45 **Q&A**

Panelists:

Hayden Bosworth, PhD, Duke University School of Medicine, Durham, North Carolina
Bryan Williams, MD, FRCP, FESC, FAHA, University of Leicester, Leicester, England

3:00-3:30 PM

Refreshment Break and Exhibits

Grand Foyer

SATURDAY

Program Agenda (continued)

3:30–5:30 PM

Session 16 Concurrent A

Salt and Hypertension

Columbus ABCD

Chairs:

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

Oral Abstract Presentations

- 3:30 **NPFF Receptors NPFF-R1 and NPFF-R2 in the Kidney: A Target for the Negative Control of Sodium Transport and Blood Pressure** **87**
Laureano D. Asico, Van Anthony M. Villar, Michael Bishop, Gerald Gomes, Momina Mazhar, Pedro A. Jose, George Washington University, Washington, DC
- 3:45 **The Immune Mechanisms of Salt-Sensitivity** **88**
Natalia Ruggeri Barbaro, Justin Van Beusecum, Roxana Loperena, Aseel Alsouqi, Mingfang Ao, Fernando Elijevovich, Cheryl L. Laffer, Alp Ikizler, Vanderbilt University, Nashville, TN; Alicia A. McDonough, Keck Sch of Med of USC, Nashville, TN; Heitor Moreno Jr, Unicamp, Campinas, Brazil; David G. Harrison, Annet Kirabo, Vanderbilt University, Nashville, TN
- 4:00 **Deletion of Circadian Clock Associated Gene, Rfwd2, Alters Rhythm in Blood Pressure Timing Without Changes in Salt-sensitivity** **89**
Daian Chen, John N. Booth III, Bryan K. Becker, Jackson C Colson, Chunhua Jin, University of Alabama Birmingham, Birmingham, AL; Allen W. Cowley Jr, Aron Geurts, Medical Coll of Wisconsin, Milwaukee, WI; Paul Muntner, Martin E. Young, David M. Pollock, Jennifer S. Pollock, University of Alabama Birmingham, Birmingham, AL
- 4:15 **Does Dietary Sodium Contribute to the Discordance in Blood Pressures Among Monozygotic Twins?** **90**
Vidya Kidambi, Medical College of Wisconsin, Milwaukee, WI; Mary F. Donohue, Michigan State Univ, East Lansing, MI; Yannick Munyara, Gerard Coly, Purushottam Laud, Medical College of Wisconsin, Milwaukee, WI; Tao Wang, Medical College of Wisconsin, Milwaukee, WI; Rakesh Reddy, Michigan State Univ, East Lansing, WI; S. A. Burts, Kelly E. Klump, Michigan State Univ, East Lansing, MI; Theodore A. Kotchen, Allen W. Cowley, Medical College of Wisconsin, Milwaukee, WI; Supratik Rayamajhi, Michigan State Univ, East Lansing, MI; David L Mattson, Medical College of Wisconsin, Milwaukee, WI; Ralph E. Watson, Michigan State Univ, East Lansing, MI; Mingyu Liang, Medical College of Wisconsin, Milwaukee, WI

4:30 **Knock Out Oof Pappa2 Enhances Blood Pressure Salt-sensitivity and Renal Injury** **91**
Allen Cowley, Aron Geurts, Louise Evans, Theresa Kurth, Chun Yang, Nadezda Zheleznova, Clayton Wollner, Vikash Kumar, Medical College of Wisconsin, Milwaukee, WI

4:45 **Tissue Sodium is A Highly Sensitive Marker of Subclinical and Localised Edema** **92**
Giacomo Rossitto, Mark Petrie, Rhian Touyz, Christian Delles, Univ of Glasgow, Glasgow, United Kingdom

5:00 **Salt resistance and renal Gpr83 function** **93**
Xiaoxu Zheng, Prasad Konkalmatt, Laureano Asico, Pedro A Jose, Ines Armando, George Washington University, Washington, DC

5:15 **Smooth Muscle PPAR γ Mutation Causes Impaired Renal Blood Flow and Salt-Sensitive Hypertension** **94**
Jing Wu, University Iowa, Coralville, IA; Larry N. Agbor, Masashi Mukohda, Anand R. Nair, Pablo Nakagawa, Donald A. Morgan, Kamal Rahmouni, University Iowa, Iowa City, IA; Katherine H. Gotlinger, Michal L. Schwartzman, New York Medical Coll, Valhalla, NY; Curt D. Sigmund, University Iowa, Iowa City, IA

3:30–5:30 pm

Session 16 Concurrent B

Aldosterone, Receptors and Other Hormones

Columbus EF

Chair:

Eric J. Belin De Chanteremele, MS, DSc, FAHA, Augusta University, Augusta, Georgia

Oral Abstract Presentations

3:30 **Renal Transcriptomic Analysis of Transgenic Mice Containing Human Cyp11b2 Gene** **95**
Brahmaraju Mopidevi, Indu Sivankutty, Sravan Perla, Sudhir Jain, Ashok Kumar, New York Medical Coll, Valhalla, NY

3:45 **Progesterone Upregulates Endothelial Mineralocorticoid Receptor Expression which Predisposes Female Mice to Obesity-induced Endothelial Dysfunction** **96**
Jessica L. Faulkner, Simone Kennard, Galina Antonova, Zsolt Bagi, Augusta University, Augusta, GA; Iris Jaffe, Tufts University, Boston, MA; Vijay S Patel, Eric J. Belin de Chanteremele, Augusta University, Augusta, GA

4:00 **Interaction Of miRNA, Endothelial Mineralocorticoid Receptor and Epithelial Sodium Channel in Endothelium Stiffness And Aortic Dysfunction** **97**
Guanghong Jia, Habibi Javad, Annayya R. Aroor, Yan Yang, Michael A. Hill, Adam Whaley-

Program Agenda (continued)

- Connell, Univ of Missouri Sch of Medicine, Columbia, MO; Frederic Jaisser, Sorbonne Univ, Paris, France; James R. Sowers, Univ of Missouri Sch of Medicine, Columbia, MO
- 4:15 **Aldosterone-producing Cell Clusters in Essential Hypertension**
Kei Omata, Ryo Kusaka, Yuto Yamazaki, Sadayoshi Ito, Fumitoshi Satoh, Tohoku Univ, Sendai, Japan; William Rainey, Scott Tomlins, Univ of Michigan, Ann Arbor, MI; Hironobu Sasano, Tohoku Univ, Sendai, Japan
- 4:30 **Carvedilol Selectively Stimulates Beta-arrestin2-dependent Serca2a Activity in Cardiomyocytes to Augment Contractility**
Anastasios Lympereopoulos, Barbara M. Parker, Ava Brill, Katie A McCrink, Jennifer Maning, Victoria L Desimine, Shelby L. Wertz, Nova Southeastern Univ, Fort Lauderdale, FL
- 4:45 **Mechanistic Insight into Tannic Acid Mediated Angiotensin Type 1 Receptor and PCSK 9 Downregulation**
Laxmi Iyer, Yong Zhang, Thomas Thekkumkara, Texas Tech Univ Health Sciences Ctr, Amarillo, TX
- 5:00 **Transforming Growth Factor-Beta-Receptor Antagonist Blocks the Cardiac Fibrosis and Remodeling in Guanylyl Cyclase/Natriuretic Peptide Receptor-A Gene-Disrupted Mice**
 Umadevi Subramanian, Ramachandran Samivel, Hanqing Zhao, Venkateswara Gogulamudi, **Kailash Nath Pandey**, Tulane Som Physiology, New Orleans, LA
- 5:15 **G-protein Coupled Protein Kinase 4 Variants Differentially Modulate Response of Breast Cancer Cells to Dopamine 1 Receptor Agonist**
Wei Yue, Hanh Tran, Jiping Wang, Katherine A. Schiermeyer, Peng Xu, John J. Gildea, Robin A. Felder, University of Virginia, Charlottesville, VA
- 3:30 **Assessment of Endothelium-dependent and -independent Vasodilation: From Methodology to Clinical Perspectives**
 Tatsuya Maruhashi, MD, PhD, Hiroshima University
- 98 4:00 **Primary Aldosteronism: Updates from PA Sendai Study Registry**
 Ryo Morimoto, MD, Tohoku University Graduate School of Medicine
- 4:30 **The Soluble (Pro)renin Receptor: Its Generation and Function**
 Tianxin Yang, MD, PhD, FAHA, University of Utah and Sun Yat-sen University
- 99 5:00 **Developing the Therapeutic Potential of Relaxin as a Treatment for Hypertension and Related Fibrosis**
 Chrishan Samuel, Senior Research Fellow (NHMRC), Department of Pharmacology, Monash University

3:30-5:30 PM

Concurrent Session 16 D

Clinical Practice Clinical Science:

AHA Council on Hypertension/ESC Council on Hypertension Joint Session

Grand BD

Chair:

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

3:30 **ESC/ESH Guideline on Hypertension 2018**

Bryan Williams, MD, FRCP, FESC, FAHA, University of Leicester

4:00 **The Canadian Guideline: Differences and Similarities to the European Guideline**

Ernesto Schiffrin, CM, MD, PhD, FRSC, FRCPC, FACP, FAHA, McGill University, Montreal, Canada

102 4:20 **US, European, and Canadian Guidelines: What is the Clinician to Do**

Michael A. Weber, MD, FACP, FACC, FAHA, SUNY Downstate College of Medicine, Brooklyn, New York

4:40 **Device-based treatment for hypertension- Who? When? How?**

Felix Mahfoud, MD, Saarland University Hospital, Homburg, Germany

5:00 **Q&A**

Panelists:

Bryan Williams, MD, FRCP, FESC, FAHA, University of Leicester

Ernesto Schiffrin, CM, MD, PhD, FRSC, FRCPC, FACP, FAHA, McGill University, Montreal, Canada

Michael A. Weber, MD, FACP, FACC, FAHA, SUNY Downstate College of Medicine, Brooklyn, New York

3:30-5:30 PM

Session 16 Concurrent C

Asian | Pacific Symposium on Cardiovascular Research

Columbus KL

Chairs:

Sadayoshi Ito, MD, PhD, FAHA, Professor, Division of Nephrology, Endocrinology and Hypertension, Tohoku University Graduate School of Medicine

Kate Denton, PhD, FAHA, Professor and NHMRC Principal Research Fellow, Monash University

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

SATURDAY

Program Agenda (continued)

5:45–6:30 PM

Session 17

The Excellence in Hypertension Research Award
Grand CDEF

Chairs:

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

5:45 **A Study of the Innate Immune Response in Hypertension**

R. Clinton Webb, PhD, FAHA, Augusta University/
Medical College of Georgia, Augusta, Georgia

6:05 **Clinical Trials and Practice Guidelines: Evidence-Based Progress in Lowering Blood Pressure**

Paul K. Whelton, MD, MSc, MBBCH, Tulane
University School of Public Health and Tropical
Medicine, New Orleans, Louisiana

7:00 PM

Social

Dinner Tickets Required for Entrance (Cash Bar)
Crystal Ballroom BC

7:30–10:30 PM

Annual Hypertension Scientific Sessions Awards Banquet

Dinner Tickets Required
Crystal Ballroom BC

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

SUNDAY, SEPTEMBER 9

6:30 AM

Registration/Information Desk Open, Exhibits and Refreshments

Grand Foyer

7:30–9:00 AM

Session 18 Concurrent A Neurogenic Mechanisms II

Columbus ABCD

Chair:

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

Oral Abstract Presentations

7:30 **Acute, Dose-Dependent, Blood Pressure-Lowering Effect of Continuous Positive Airway Pressure in Autonomic Failure Patients with Supine Hypertension** 103

Luis E. Okamoto, Jorge E. Celedonio,
Andre Diedrich, Cyndya A Shibao, Alfredo
Gamboa, Bonnie K Black, Sachin Y.
Paranjape, David Robertson, Italo
Biaggioni, Vanderbilt University Medical
School, Nashville, TN

7:45 **DOCA induced Natriorexigenic and Hypertensive Effects are Blunted by Central Infusion of AT1 Receptor biased Agonist TRV120027** 104

Fernando Seara, Pablo Nakagawa, Javier A.
Gomez, Guorui Deng, Julien A. Sebag, Univ
of Iowa, Iowa city, IA; Sadashiva S. Karnik,
Cleveland Clinic Lerner Res Inst, Cleveland,
OH; Justin L. Grobe, Curt D. Sigmund, Univ
of Iowa, Iowa city, IA

8:00 **PVN Inflammation Contributes to Brain Gal2 Protein Dependent Sympathetically Mediated Salt Sensitive Hypertension** 105

Richard D Wainford, **Jonique George**, Boston
Univ School Medicine, Boston, MA

8:15 **Central Angiotensin II Mediates Neurogenic Hypertension Through Post-Translational Regulation of Neuronal Nitric Oxide Synthase in the Paraventricular Nucleus of the Hypothalamus** 106

Neeru M. Sharma, UNMC, Omaha, NE;
Andrea S. Haibara, Univ of Minas Gerais,
Belo Horizonte, Brazil; Kenichi Katsurada,
Xuefei Liu, Kaushik P. Patel, UNMC,
Omaha, NE

8:30 **Neurons in the Organum Vasculosum of the Lamina Terminalis Sense NaCl and Angiotensin II to Regulate Sympathetic Nerve Activity and Arterial Blood Pressure** 107

Sean D. Stocker, Brian J. Kinsman, Kirsteen N.
Browning, University of Pittsburgh, Pittsburgh,
PA; Megan M Wenner, William B. Farquhar,
Univ of Delaware, Newark, DE

8:45 **Sympathetic Inhibition Prevents the Homing of Specific Memory T Cells to the Bone Marrow and the Development of Repeated Hypertension** 108

Liang Xiao, Luciana S. Carmo, Hana A. Itani,
Jason D. Foss, Wei Chen, David G. Harrison,
Vanderbilt Univ Medical Ctr, Nashville, TN

7:30–9:00 AM

Concurrent Session 18 B Vascular Stiffness

Columbus EF

Chairs:

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

Oral Abstract Presentations

7:30 **Association Between Aortic Stiffness and Lower Retinal Microvascular Blood Flow Revealed by Laser Speckle Flowgraphy: Surrogate Measures of Cerebral Microcirculation In Humans** 109

Seth W. Holwerda, Randy H. Kardon,

Program Agenda (continued)

	Joseph M. Wetherell, Jan M. Full, Lyndsey E. Dubose, Lauren J. Points, Allene L. Gremaud, Rachel E. Luehrs, Brian Tong, Julie K. Nellis, Amy K. Stroud, Jess G. Fiedorowicz, Gary L. Pierce, University of Iowa, Iowa City, IA	
7:45	Vascular Smooth Muscle RhoBTB1 Protects from Hypertension and Arterial Stiffness by Cullin-3 Dependent Ubiquitination of Phosphodiesterase 5 Masashi Mukohda, Shi Fang , Jing Wu, Larry N. Agbor, Anand R Nair, Stella-Rita C. Ibeawuchi, Chunyan Hu, Xuebo Liu, Ko-Ting Lu, Deng-Fu Guo, Debbie R. Davis, Henry L. Keen, Frederick W. Quelle, Curt D. Sigmund, University of Iowa, Iowa City, IA	110
8:00	Endothelial Sodium Channel Activation Promotes Angiotensin II Induced Arterial Stiffness and Endothelial Dysfunction Annayya Aroor , Guanghong Jia, Michael Hill, Javad Habibi, Yan Yang, Sun Zhe, Francisco Ramirez-Perez, Luis Martinez-Lemus, Adam Whaley-Connell, Univ of Missouri, Sch of Med, Columbia, MO; Frederic Jaisser, Univ Paris Descartes, INSERM, UPMC Univ Paris, Paris, France; James Sowers, Univ of Missouri, Sch of Med, Columbia, MO	111
8:15	Carotid Artery Stiffness Increases the Risk of Incident Depressive Symptoms: The Paris Prospective Study 3 Thomas T. van Sloten , Pierre Boutouyrie, Muriel Tafflet, Inserm U970, Paris, France; Frédérique Thomas, Preventive and Clinical Investigation Ctr, Paris, France; Catherine Guibout, Rachel E Climie, Inserm U970, Paris, France; Cédric Lemogne, AP-HP, Georges Pompidou European Hosp, Dept of Psychiatry, Paris, France; Bruno Pannier, Preventive and Clinical Investigation Ctr, Paris, France; Stéphane Laurent, Xavier Jouven, Jean-Philippe Empana, Inserm U970, Paris, France	112
8:30	Female Protection from Arterial Stiffness Diminishes with G Protein-Coupled Estrogen Receptor Deletion or Angiotensin II Hypertension Benard O. Ogola , Caleb M. Abshire, Gabrielle L. Clark, Dylan J. Lawrence, Margaret A. Zimmerman, Carolyn L. Bayer, Kristin S. Miller, Sarah H. Lindsey, Tulane Sch of Med, New Orleans, LA	113
8:45	Increased Circulating Levels of Mitochondrial N-Formyl Peptides Leads to Vascular Dysfunction and High Blood Pressure in Spontaneously Hypertensive Rats Camilla F Wenceslau , Cameron G. McCarthy, R. Clinton Webb, Augusta University, Augusta, GA	114
	7:30-9:00 AM Concurrent Session 18 C Epidemiology, Genetics and Epigenetics <i>Columbus KL</i>	
	Chair: Mingyu Liang, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin	
	Oral Abstract Presentations	
7:30	Renal-specific Expression of Human Grk4 R65L In Mice Lacking Grk4 Increases Blood Pressure Selim Rozyyev , Prasad Konkalmatt, Laureano Asico, Megha Kumar, Jessica Hunt, Pedro A Jose, Ines Armando, George Washington University, Washington, DC	115
7:45	Epigenetic Regulation of Human Angiotensinogen (hAGT) gene by SNPs Sravan Perla , Brahmaraju Mopidevi, Indu Sivankutty, Sudhir Jain, Kavita Jain, Ashok Kumar, New York Medical Coll, Valhalla, NY	116
8:00	Inhibition of DNA Methyltransferase Attenuates Salt-Sensitive Hypertension & Renal Disease in Dahl Salt Sensitive Rats John Henry H. Dasinger , Xiaoqing Pan, Justine M. Abais-Battad, Ammar J. Alsheikh, Hayley Lund, Daniel J Fehrenbach, Pengyuan Liu, Mingyu Liang, David L Mattson, Medical College of Wisconsin, Milwaukee, WI	117
8:15	DNA de novo (de)Methylation in the Kidney Contributes to Salt-Induced Hypertension Pengyuan Liu, Sir Run Run Shaw Hosp and Inst of Translational Med, Zhejiang Univ, Hangzhou, Zhejiang, China; Yong Liu , Xiaoqing Pan, Medical Coll of Wisconsin, Milwaukee, WI; Yingchuan Li, Intensive Care Unit, Shanghai Jiaotong Univ Affiliated Sixth Hosp, Shanghai, China; Kristie Usa, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI	118
8:30	Using Blood Pressure Values from Electronic Medical Records to Identify Hypertension During Pregnancy Lu Chen , Kaiser Permanente Washington, Seattle, WA; Thomas Easterling, Univ of Washington, Seattle, WA; T. Craig Cheetham, Kristi Reynolds, Kaiser Permanente Southern California, Dept of Res & Evaluation, Pasadena, CA; Lyndsay Avalos, Kaiser Permanente Northern California, Div of Res, Oakland, CA; Victoria Holt, Univ of Washington, Seattle, WA; Romain Neugebauer, Kaiser Permanente Northern California, Div of Res, Oakland, CA; Susan M. Shortreed, Mary Akosile, Aruna Kamineni, Rod Walker, Kaiser Permanente Washington, Seattle, WA; Sylvia E Badon, Kaiser Permanente Northern California, Div of Res, Oakland, CA; Sascha Dublin, Kaiser Permanente Washington, Seattle, WA	119

Program Agenda (continued)

8:45 **Long-Term Stability of the Masked Hypertension Phenotype and Responsiveness of Masked Hypertension to Antihypertensive Treatment: Findings from the Masked Hypertension Study** **120**
Ian M. Kronish, Justin Young, Daichi Shimbo, Joseph E. Schwartz, Columbia University, New York, NY

9:00-9:30 AM

Session 18

The Lewis K. Dahl Memorial Lecture

Grand CDEF

Chair:

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

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

8:00-9:20 AM

Concurrent Session 18 D

Clinical Practice Clinical Science Track: Getting It Done: Practical Ways to Improve Blood Pressure Control Part 1

Grand BD

Chairs:

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

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

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

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

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

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

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

Robert Kushner, MD Northwestern University School of Medicine, Chicago, Illinois
Robert A. Phillips, MD, PhD, FAHA, Houston Methodist, Houston, Texas

9:20 -10:00 AM

Refreshment Break and Exhibit

Grand Foyer

10:00-11:30 am

Concurrent Session 19 D

Clinical Practice Clinical Science Track: Getting It Done: Practical Ways to Improve Blood Pressure Control Part 2

Grand BD

Chairs:

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

9:40 **Getting Ambulatory Blood Pressure Monitoring Reimbursed**

Steven A. Yarows, MD, FAHA, University of Michigan Health System, Chelsea, Michigan

9:55 **Which Device Should We Use for Office BP Measurement**

Martin G. Myers, MD, Sunnybrook Health Sciences Center, Toronto, Canada

10:10 **Promoting Accurate Home Blood Pressure Monitoring**

Daichi Shimbo, MD, Columbia University Medical Center, New York, New York

10:25 **Team-based Approach to Blood Pressure Telemonitoring**

Karen Margolis, MD, MPH, University of Minnesota Medical School, Minneapolis, Minnesota

10:40 **Q&A**

Panelists:

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

10:00-11:30 AM

Concurrent Session 19 A

Oxidative Stress, Nitric Oxide, Endothelin, and Other Endothelial Factors

Columbus ABCD

Chairs:

David M. Pollock, PhD, FAHA, University of Alabama Birmingham, Birmingham, Alabama
Thu Le, MD, FAHA, University of Virginia School of Medicine, Charlottesville, Virginia

SUNDAY

Program Agenda (continued)

Oral Abstract Presentations

- 10:00 **Endothelial Cullin3 Mutation Causes Vascular Dysfunction, Arterial Stiffening and Hypertension**
Jing Wu, University Iowa, Coralville, IA; Larry N. Agbor, Shi Fang, Chunyan Hu, Xuebo Liu, Masashi Mukohda, Anand Nair, Curt D. Sigmund, University Iowa, Iowa City, IA
- 10:15 **Deletion of Gstm1 Results in Poor Survival and Exaggerated Kidney Injury Associated with Increased Oxidative Stress and Apoptosis in a Mouse Model of Chronic Kidney Disease**
Sylvia Cechova, Gabor Bodonyi-Kovacs, Fang Chan, Univ of Virginia, Charlottesville, VA; Phillip Ruiz, Univ of Miami Sch of Med, Miami, FL; Thu H. Le, Univ of Virginia, Charlottesville, VA
- 10:30 **Effect of Immune Cell-derived Reactive Oxygen Species on Dahl SS Hypertension**
Justine M. Abais-Battad, Hayley Lund, John Henry Dasinger, Daniel J. Fehrenbach, David L Mattson, Medical College of Wisconsin, Milwaukee, WI
- 10:45 **Nadph Oxidase 4 and Mitochondrial Abnormalities Contribute to Oxidative Stress and Endothelial Dysfunction in Young Normotensive Patients With Autosomal Dominant Polycystic Kidney Disease**
 Ali Kahveci, Fouad T. Chebib, Alfonso Eirin, Amir Lerman, Lilach O. Lerman, Peter C. Harris, Vicente E. Torres, **Maria V Irazabal**, Mayo Clinic, Rochester, MN
- 11:00 **Hyperacetylation of CypD Contributes to Mitochondrial Dysfunction, Vascular Oxidative Stress and Hypertension, and Mitochondria-Targeted Isoketal Scavenger mito2HOBA Prevents CypD Hyperacetylation and Reduces Hypertension**
Sergey I Dikalov, Vanderbilt University Medical Ctr, Nashville, TN; Vladimir Mayorov, Mercer Univ Sch of Med, Macon, GA; Arvind Pandey, Vanderbilt University Medical Ctr, Nashville, TN; Alexander Panov, Mercer Univ Sch of Med, Macon, GA; Hana Itani, Venkataraman Amarnath, Raymond Mernaugh, Olivier Boutaud, Sean Davies, John Oates, David G. Harrison, Anna Dikalova, Vanderbilt University Medical Ctr, Nashville, TN
- 11:15 **Nox5 Regulation of Vascular Contraction Involves Oxidation of Endoplasmic Reticulum Calcium Channels and Calreticulin**
Augusto C. Montezano, Livia Lucca Camargo, Emma Carrick, Francisco Jose Rios, Laura Haddow, Wendy Beatie, Chet E. Holterman, Christopher Kennedy, Rhian M. Touyz, ICAMS – Univ of Glasgow, Glasgow, United Kingdom

11:30 **Adjourn**

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10:00-11:30 AM
Concurrent Session 19 B
Inflammation, Immunity and Cytokines II
Columbus EF

Chairs:
 Nicola Wilck, MD, Charité-Universitätsmedizin Berlin
 David L. Mattson, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin

122

Oral Abstract Presentations

- 10:00 **Axl⁺ Siglec6⁺ Dendritic Cells: The Role of Salt, Stretch and Hypertension** **127**
Justin P Van Beusecum, Natalia R. Barbaro, Vanderbilt Univ Medical Ctr, Nashville, TN; Roxana Loperena, Vanderbilt Univ, Nashville, TN; David G. Harrison, Vanderbilt Univ Medical Ctr, Nashville, TN
- 10:15 **Interleukin-17 Mediates Hypertension, Intrauterine Growth Restriction, Cytolytic Natural Killer Cells and Vascular Dysfunction in Pregnant Rats** **128**
Olivia Travis, Dakota White, William A. Pierce, Ying Ge, Cassandra M. Young, Jan Michael Williams, Frank Spradley, Denise C. Cornelius, University of Miss Med Center, Jackson, MS
- 10:30 **TRPM7 α -kinase Deficiency Causes Cardiovascular Inflammation and Fibrosis** **129**
Francisco J. Rios, Zou Zhi-guo, Livia L. Camargo, Adam P. Harvey, University of Glasgow, Glasgow, United Kingdom; Silvia Lacchini, Univ of Sao Paulo, Sao Paulo, Brazil; Panagiota Anyfanti, Aristotle Univ of Thessaloniki, Thessaloniki, Greece; Sarah McGrath, Carl S. Goodyear, Augusto C. Montezano, Rhian M. Touyz, University of Glasgow, Glasgow, United Kingdom
- 10:45 **ATP Release Drives the Immune Responses Associated With Hypertension** **130**
Tuantuan Zhao, Dept of Physiology, Zhejiang Univ Sch of Med, Hangzhou, China; Qian Zhu, Yu Li, Dept of Physiology, Zhejiang Univ Sch of Med, Hangzhou, China; Xiaoli Liu, Zhejiang Hosp, Hangzhou, China; Peng Shi, Inst of Translational Med, Zhejiang Univ Sch of Med, Hangzhou, China; Kenneth E. Bernstein, Cedars-Sinai Medical Ctr, Los Angeles, CA; Xiao Z. Shen, Dept of Physiology, Zhejiang Univ Sch of Med, Hangzhou, China
- 11:00 **Microbiota-derived Metabolite Propionate Protects from Hypertensive Cardiovascular Damage** **131**
Nicola Wilck, Hendrik Bartolomaeus, András Balogh, ECRC, Berlin, Germany; Mina Yakoub, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Susanne Homann, Inst of Pharmacology and Clinical Pharmacology, Univ Hosp Düsseldorf,

SUNDAY

Program Agenda (continued)

SUNDAY

Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Lajos Markó, ECRC, Berlin, Germany; Sascha Höges, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Dmitry Tsvetkov, Sebastian Wundersitz, Nadine Haase, ECRC, Berlin, Germany; Lydia Hering, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Martina Maase, Kristina Kusche-Vihrog, Inst of Physiology II, Univ of Münster, Münster, Germany; Maria Grandoch, Inst of Pharmacology and Clinical Pharmacology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Jens Fielitz, ECRC, Berlin, Germany; Stefan Kempa, MDC Berlin, Berlin, Germany; Sofia K. Forslund, ECRC, Berlin, Germany; Almagul Kushugulova, Natl Lab Astana Nazarbayev Univ, Astana, Kazakhstan; Ralf Dechend, ECRC, Berlin, Germany; Kai-Uwe Eckardt, Charité Univ Med, Div of Nephrology and Internal Intensive Care Med, Berlin, Germany; Lars C Rump, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Dominik N Müller, ECRC, Berlin, Germany; Johannes Stegbauer, Dept of Nephrology, Univ Hosp Düsseldorf, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany

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

11:30 **Adjourn**

10:00-11:30 AM

Concurrent Session 19 C

Developmental Programming and Preeclampsia

Columbus KL

Chairs:

Barbara T. Alexander, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
 Sarosh Rana, MD, University of Chicago, Chicago, Illinois

Oral Abstract Presentations

10:00 **Endothelial-Specific Interference with PPAR γ Increases the Susceptibility to Angiotensin II-induced Endothelial Dysfunction in Adult Offspring Born from AVP-infused Pregnancies** **133**
Anand R. Nair, Masashi Mukohda, Larry N. Agbor, Ko-Ting Lu, Jing Wu, Jeremy A.

Sandgren, Justin L. Grobe, Curt D. Sigmund, Univ of Iowa, Iowa City, IA

10:15 **The Effect of Low Birth Weight on the Microcirculation in the 1st Year of Life** **134**
Muti E Goloba, Rajendra Raghuraman, Uzma Khan, Amelia Brown, Monique Klein, Nansi Botros, St George's Univ, London, United Kingdom; **Donovan Duffy**, Neonatal Unit, St George's Univ Hosp NHS Fndn Trust, London, United Kingdom; **Duolao Wang**, Dept of Clinical Sciences, Liverpool Sch of Tropical Med, Liverpool, United Kingdom; **Isaac Manyonda**, Obstetrics & Gynaecology Dept, St George's Univ Hosp NHS Fndn Trust, London, United Kingdom; **Tarek F. Antonios**, St George's Univ and St George's Univ Hosp NHS Fndn Trust, London, United Kingdom

10:30 **Impaired Autonomic Function in Young Adults Born Preterm with Very Low Birth Weight is Associated with Elevated Serum Uric Acid Levels** **135**
Hossam A. Shaltout, Wake Forest Sch of Med, Winston Salem, NC; **Patricia A. Nixon**, Wake Forest UNIVERSITY, Winston Salem, NC; **Mark C. Chappell**, Debra I. Diz, Andrew M. South, Elizabeth T. Jensen, Lisa K. Washburn, Wake Forest Sch of Med, Winston Salem, NC

10:45 **Attenuation of Increased Blood Pressure by Chronic Estrogen Supplementation in Female IUGR Offspring at 12 months of Age is Associated with a Shift Towards ACE2** **136**
Gwendolyn K. Davis, Ashley D. Newsome, Norma B. Ojeda, Barbara T. Alexander, University of MS Medical Center, Jackson, MS

11:00 **Progesterone Induced Blocking Factor Improves Clinical Characteristics of Preeclampsia in Rupp Rats** **137**
Lorena M. Amaral, Mark W. Cunningham Jr, Jesse N. Cottrell, Denise C Cornelius, Tarek Ibrahim, Babbette LaMarca, Medical Center – UMMC, Jackson, MS

11:15 **White Adipose Tissue in the Preeclamptic-like BPH/5 Mouse has a Unique Inflammatory Molecular Signature During Early Pregnancy** **138**
Jennifer L Sones, Dorien Reijnders, Kelsey Olson, Veterinary Clinical Sciences, Sch of Veterinary Med, Louisiana State Univ., Baton Rouge, LA; **Leanne Redman**, Pennington Biomedical Res Ctr, Baton Rouge, LA

11:30 **Adjourn**

Poster Presentations (continued)

Poster Session Schedule

All poster sessions will be held in **Riverside East**

Poster Session Date	Presentation Time	Set-up Time	Tear-Down Time
Session 1 Thursday, September 6	5:30–7:30 PM	Noon–5:00 PM	8:00–9:00 PM
Session 2 Friday, September 7	1:30–3:00 PM	8:00 AM–Noon	3:00–5:00 PM
Session 3 Saturday, September 8	1:30–3:00 PM	8:00 AM–Noon	3:00–5:00 PM

Thursday, September 6, 5:30–7:30 PM

Poster Session I, Trainee Onsite Poster Competition

Abstracts P109 – P237

A handout of the Trainee Onsite Poster Competition Judges will be available at Poster Session I

Abstract Category	Poster Number
Renin-Angiotensin System	P109-P115
Aldosterone, Its Receptors and Other Hormones	P116-P117
Receptors and Signal Transduction	P118
Chronic Kidney Disease	P119-P125
Renal Tubular Transport	P126
Renal Hemodynamics & Renovascular Hypertension	P127-P129
Vascular Remodeling and Dysfunction	P130-P132
Vascular Stiffness	P133-P138
Vascular Biology	P139-P147
Nitric Oxide, Endothelin, and Other Endothelial Factors	P148-P151
Oxidative Stress	P152-P154
Inflammation, Immunity and Cytokines	P155-P164
Genetics and Epigenetics	P165-P166
Proteomics and Metabolomics	P167
Epidemiology	P168-P172
Gender Differences and Sex Hormones	P173-P177; P404
Developmental Programming of Cardiovascular Disease	P178
Pregnancy and Preeclampsia	P179-P183
Cardiac Hypertrophy and Dysfunction	P184-P186
Lipid Metabolism	P187-P189
Obesity Insulin Resistance and Metabolic Syndrome	P190-P194
Diabetes	P195-P197
Cerebrovascular Disease and Stroke	P198-P199
Hypertension and Aging	P200
Neurogenic Mechanisms	P201-P205
Blood Pressure Monitoring	P206-P207
Blood Pressure Control and Adherence to Treatment	P208-P210
Clinical Trials in Hypertension and Related Morbidities	P211
Antihypertensive Drugs and Pharmacology	P212-P213
Salt and Hypertension	P214-P223
Nutrition and Hypertension	P224
Non-Pharmacological Therapy (Alternative Medicine; Diet; Physical Activity)	P225-P227
Patient-Provider-Healthcare System Issues	P228-P229
Pediatric and Adolescent Hypertension	P230-P233
Other	P234-P237

Poster Presentations

Friday, September 7, 1:30-3:00 PM

Poster Session 2

Abstracts P238-P321

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

Abstract Category	Poster Number	Poster Chair
Renin-Angiotensin System	P238-P252	Curt D. Sigmund, PhD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
Aldosterone, Its Receptors and Other Hormones	P253	Curt D. Sigmund, PhD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
Receptors and Signal Transduction	P254-P257	R. Clinton Webb, PhD, FAHA, Augusta University/Medical College of Georgia Augusta, Georgia
Chronic Kidney Disease	P258-P262	Allen Cowley, PhD, FAHA, Medical College of Wisconsin, Milwaukee, Wisconsin
Renal Tubular Transport	P263-P264	Paul A. Welling, MD, FAHA, University of Maryland School of Medicine, Baltimore, Maryland
Renal Hemodynamics and Renovascular Hypertension	P265-P266	Anil Bidani, MD, FAHA, Edward Hines Jr. VA Hospital, Hines, Illinois
Vascular Remodeling and Dysfunction	P267-P269	Patrick J. Pagano, PhD, FAHA, University of Pittsburgh, Pittsburgh, Pennsylvania
Vascular Stiffness	P270-P273	Hirofumi Tanaka, PhD, The University of Texas at Austin, Austin, Texas
Vascular Biology	P274-P277	Ernesto Schiffrin, CM, MD, PhD, FRSC, FRCPC, FACP, McGill University, Montreal, Canada
Nitric Oxide, Endothelin, and Other Endothelial Factors	P278-P279	David Pollock, PhD, FAHA, University of Alabama at Birmingham, Birmingham, Alabama
Inflammation, Immunity and Cytokines	P280-P290	Michael J. Ryan, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Genetics and Epigenetics	P291-P295	Vinod K. Bansal, MD, FAHA, Loyola University Medical Center, Chicago, Illinois
Proteomics and Metabolomics	P296	Vinod K. Bansal, MD, FAHA, Loyola University Medical Center, Chicago, Illinois
Epidemiology	P297-P302	TBD
Gender Differences and Sex Hormones	P303-P305	Jane Reckelhoff, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Developmental Programming of Cardiovascular Disease	P306	Barbara T. Alexander, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Pregnancy and Preeclampsia	P301-P316	Barbara T. Alexander, PhD, FAHA, University of Mississippi Medical Center, Jackson, Mississippi
Coronary Artery Disease and Hypertension	P317	Robert S. Danziger, MD, University of Chicago, Chicago, Illinois
Cardiac Hypertrophy and Dysfunction	P318-P321	Robert S. Danziger, MD, University of Chicago, Chicago, Illinois

Saturday, September 8, 1:30-3:00 PM

Poster Session 3



Abstracts P322-P403

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

Abstract Category	Poster Number	Poster Chair
Lipid Metabolism	P322	Allyn L. Mark, MD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
Obesity Insulin Resistance and Metabolic Syndrome	P323-P326; P103	Allyn L. Mark, MD, FAHA, University of Iowa Carver College of Medicine, Iowa City, Iowa
Diabetes	P327-P331	TBD

Poster Presentations (continued)


Cerebrovascular Disease and Stroke	P332-P335	Jose Biller, MD, FAAN, FACP, FAHA, Loyola University Medical Center, Chicago, Illinois
Hypertension and Aging	P336-P339	Zhohgjie Sun, MD, PhD, FAHA, University of Florida College of Medicine, Gainesville, Florida
Neurogenic Mechanisms	P340-P344	Gregory D. Fink, PhD, FAHA, Michigan State University, Lansing, Michigan
Blood Pressure Monitoring	P345-P355	TBD
Blood Pressure Control and Adherence to Treatment	P356-P370	TBD
Clinical Trials in Hypertension and Related Morbidities	P371-P374; P107	TBD
Antihypertensive Drugs and Pharmacology	P375-P376; P102	William J. Elliott, MD, PhD, FAHA, Pacific Northwest University of Health Sciences, Yakima, Washington
Salt and Hypertension	P377-P384	Pedro A. Jose, MD, PhD, FAHA, George Washington University School of Medicine, Washington, D.C.
Nutrition and Hypertension	P385-P386	Cheryl Laffer, MD, PhD, FAHA, Vanderbilt University School of Medicine, Nashville, Tennessee
Non-Pharmacological Therapy (Alternative Medicine; Diet; Physical Activity)	P387-P388	Crystal Tyson, MD, Duke University Medical Center, Durham, North Carolina
Patient-Provider-Healthcare System Issues	P389-P390	TBD
Pediatric and Adolescent Hypertension	P391-P398	TBD
Other	P399-P403	Karen Griffin, MD, FAHA, Loyola University Medical Center, Chicago, Illinois






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POSTERS

Poster Presentations (continued)

- P102 Ablation of MMP-9 and H2S Treatment Mitigates Ocular Hypertension and Retinal Remodeling**
Akash K. George, Mahavir Singh, Rubens P. Homme, Naira Metreveli, Suresh C. Tyagi, UNIV OF LOUISVILLE MEDICAL SCHOOL, Louisville, KY
- P103 Hepatocyte Depolarization Induces a Pressor Response**
Yao Xiao, Benjamin J Renquist, UNIVERSITY OF ARIZONA, Tucson, AZ
- P104 Urban And Rural Differences In Exposure And Effects Of Micro Air Particles On Blood Pressure Parameters**
Benedicta N Nkeh-Chungag, WALTER SISULU UNIVERSITY, Mthatha, South Africa; Anye Chungag, Univ of Fort Hare, Alice, South Africa; Constance R Sewani-Rusike, WALTER SISULU UNIVERSITY, Mthatha, South Africa
- P105 An Exploration Of The Relationship Between Endothelial Function, Blood Pressure And Anthropometric Measurements In 6-8 Year Old Rural Versus Urban Children In The Eastern Cape Province Of South Africa**
Prescilla B Letwalo, Edna N Matjuda, Constance R Sewani-Rusike, Benedicta N Nkeh-Chungag, WALTER SISULU UNIVERSITY, Mthatha, South Africa
- P106 Association Of Pulse Wave Velocity With Hypertension And Anthropometric Measurements In 6-8 Years Old Children In Mthatha, South Africa**
Edna N Matjuda, Prescilla B Letswalo, Constance R Sewani-Rusike, Benedicta N Nkeh-Chungag, WALTER SISULU UNIVERSITY, Mthatha, South Africa
- P107 Real-World Azilsartan efficacy Assessment Study in Indian Hypertensive patients (RAAS-India)**
Uday Jadhav, MGM NEW BOMBAY HOSPITAL, NEW MUMBAI, India; JAMSHED DALAL, KOKILABEN AMBANI HOSPITAL, MUMBAI, India
- P108 Characterization of Blood Pressure Response to Spironolactone in Patients with Resistant Hypertension using Electronic Medical Records**
Megan M Shuey, Hui Nian, Chang Yu, James M. Luther, Nancy J. Brown, Vanderbilt Univ Medical Ctr, Nashville, TN
- P109 Collecting duct Renin and Aldosterone Regulate Potassium Homeostasis**
chuanming xu, Univ of Utah, slc, UT; Yanting Chen, Sun Yat-sen Univ, Guangzhou, China; Changjiang Zou, Nirupama Ramkumar, Shiyong Xie, Fei Wang, Renfei Luo, Tianxin Yang, Univ of Utah, slc, UT
- P110 Renal Angiotensin Generation Depends On Hepatic Angiotensinogen: Evidence From A Preclinical Study With RNAi Therapeutics Targeting Liver Angiotensinogen**
Katrina M Mirabito Colafella, Monash Univ, Melbourne, Australia; Estrellita Ujil, Richard van Veghel, René de Vries, Ingrid M Garrelds, Ewout J Hoorn, Erasmus MC, Rotterdam, Netherlands; Marko Poglitsch, Attoquant Diagnostics, Vienna, Austria; Jae Kim, Don Foster, Alnylam Pharmaceuticals, Cambridge, MA; A.H. Jan Danser, Erasmus MC, Rotterdam, Netherlands
- P111 ELABELA Antagonizes Intrarenal Renin to Lower Blood Pressure and Protect against Renal Injury**
chuanming xu, Fei Wang, Univ of Utah, slc, UT; Yanting Chen, Sun Yat-sen Univ, Guangzhou, China; Shiyong Xie, Renfei Luo, Univ of Utah, slc, UT; Danielle Sng, Bruno Reversade, Inst of Medical Biology, A*STAR, 8A Biomedical Grove, Immunos, Singapore; Tianxin Yang, Univ of Utah, slc, UT
- P112 Site-1 protease Regulates Potassium Homeostasis via Intrarenal Renin-Angiotensin-Aldosterone System**
Yanting Chen, Sun Yat-sen Univ, Guangzhou, China; Chuanming Xu, Shiyong Xie, Fei Wang, Renfei Luo, Tianxin Yang, Univ of Utah, slc, UT
- P113 Early Life Stress-induced Increases In Urinary Aldosterone Precedes Renal Dysfunction And Hypertension In Male Mice Fed A High Fat Diet**
Jacqueline R Leachman, Carolina Dalmaso, Xiu Xu, Jason Backus, Lisa Cassis, Analia S Loria, UNIVERSITY OF KENTUCKY, Lexington, KY
- P114 Predominance of formation over degradation as mechanism of Angiotensin-II(1-8) regulation in Aminopeptidase A deficient kidneys**
Benedikt Marahrens, Charité Univ Med Berlin, Berlin, Germany; Jan Wysocki, Northwestern Univ / Feinberg Sch of Med, Chicago, IL; Juan-Carlos Velez, Dept of Nephrology, Ochsner Clinic Fndn, New Orleans, LA; Micheal Bader, Max Delbrück Ctr for Molecular Med, Berlin, Germany; Daniel Battle, Northwestern Univ / Feinberg Sch of Med, Chicago, IL
- P115 Urinary angiotensinogen is increased in type 1 diabetes with mild albuminuria: Gender differences**
Alejandro Sanchez Nadales, Sheeba Habeeb Ba Aqeel, Minghao Ye, Jan Wysocki, Alfred Rademaker, Mark Molitch, Daniel Battle, Northwestern Univ Feinberg Sch of Med, Chicago, IL
- P116 Induction of Human Endothelin-1 Overexpression for 3 Months Increases Plasma Aldosterone**
Olga Berillo, Suellen C Coelho, Nada Mahjoub, Nathanne Ferreira, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Stefan Offermanns, Max-Planck-Inst for Heart and Lung Res, Bad Nauheim, Germany; Pierre Paradis, Ernesto L Schiffrin, Lady Davis Inst for Medical Res, Montreal, QC, Canada
- P117 Blood Pressure Outcomes In Patients With Primary Aldosteronism After Adrenalectomy Versus Medical Management In Relation To The New 2017 ACC/AHA Blood Pressure Guidelines**
Alexa Hammond, Bryan Wu, Hamza Lodhi, Jeomi Maduka, Poghni Peri-okonny, Danielle Tientcheu, Angela Price, Wanpen Vongpatanasin, Univ of Texas Southwestern Medical Ctr, Dallas, TX
- P118 Tissue transglutaminase contributes to pro-inflammatory cytokine LIGHT-induced Ang II sensitization**
Chen Liu, Renna Luo, Wei Wang, Zhangzhe Peng, Zhen Zhou, Dianna Milewicz, UTHealth, Houston, TX; Gail Johnson, Univ of Rochester, Rochester, NY; Rodney Kellems, Yang Xia, UTHealth, Houston, TX

Poster Presentations (continued)

- P119 Hypertension And Renal Dysfunction Are Mitigated By Surgical Renal Denervation In An Adult Rat Model Of Polycystic Kidney Disease**
Christopher T Banek, Madeline M Gauthier, John W Osborn, Univ of Minnesota, Minneapolis, MN
- P120 Mir-338-3p Is Down-regulated In Subcutaneous Small Arteries Of Hypertensive Patients With Chronic Kidney Disease**
Nada Mahjoub, Lady Davis institut, montreal, QC, Canada
- P121 The Effect of Intensive Blood Pressure Targets on Mortality in Chronic Kidney Disease Patients: An Individual Patient Data Meta-analysis of Randomized Controlled Trials**
Rahul Aggarwal, Nicholas Chiu, Benjamin Petrie, Haares Mirzan, Jackson Steinkamp, Boston Univ, Boston, MA
- P122 Early Renal Allograft Function and Hypertension after Kidney Transplantation**
Ekamol Tantisattamo, Div of Nephrology and Hypertension, Dept of Med, Univ of California, Irvine Sch of Med, Orange, CA; Siroj Dejhansathit, Possawat Vutthikraivit, Phramongkutklao Coll of Med, Mahidol Univ, Bangkok, Thailand; Haritha Mopuru, Multi-Organ Transplant Ctr, William Beaumont Hosp, Royal Oak, MI; Praveen Ratanasrimetha, Texas Tech Univ Health Sciences Ctr, Lubbock, TX; Rungwasee Rattanavich, Div of Nephrology, Dept of Med, Washington Univ school of Med, St. Louis, MO; Raghavesh Pullalarevu, Multi-Organ Transplant Ctr, Div of Nephrology, Dept of Internal Med, William Beaumont Hosp, Oakland Univ William Beaumont Sch of Med, Royal Oak, MI
- P123 Plasma Endocan Level As A Predictor Of Cardiovascular Composite Outcomes In Patients With End-stage Renal Disease**
Ji Yung Lee, Hyung Seok Ihm, Hyeon Seok Hwang, Kyung Hwan Jeong, Chun Gyoo Ihm, Sang Ho Lee, Tae Won Lee, Yang Gyun Kim, Ju Young Moon, Kyung Hee Univ Sch of Med, Seoul, Korea, Republic of
- P124 Renal Ischemia-Reperfusion Injury in Aging and Diabetes**
Yoshikazu MUROYA, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Xiachen He, Univ of Mississippi Medical Ctr., Jackson, MS; Fan Fan, Univ of Mississippi Medical Ctr, Jackson, MS; Takefumi Mori, Osamu Ito, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Richard J Roman, Univ of Mississippi Medical Ctr, Jackson, MS
- P125 Role of circulating Endothelial Progenitor Cell Levels Predict Cardiovascular Events in patients on maintenance hemodialysis**
Hyung-seok Ihm, Chun-gyoo Ihm, Tae-won Lee, Kyung-hwan Jeong, Hyeon-seok Hwang, Sang-ho Lee, Woo-shik Kim, Ji yung Lee, Kyung Hee Univ Sch of Med, Seoul, Korea, Republic of
- P126 Site-1 Protease-Derived Soluble (Pro)Renin Receptor Targets Renal V2 Vasopressin Receptor/AQP2 to Enhance Urine Concentrating Capability**
Fei Wang, UNIVERSITY OF UTAH, Salt Lake Cty, UT; Kexin Peng, Univ of Utah, Salt Lake Cty, UT; Chuanming Xu, Shiyang Xie, Renfei Luo, Chang-jiang Zou, Tianxin Yang, UNIVERSITY OF UTAH, Salt Lake Cty, UT
- P127 Pericyte Detachment Is Involved In Renal Congestion In A Novel Rat Model**
Satoshi Shimada, Tohoku Univ, Sendai, Japan; Takuo Hirose, Chika Takahashi, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Emiko Sato, Tohoku Univ, Sendai, Japan; Satoshi Kinugasa, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Sadayoshi Ito, Tohoku Univ, Sendai, Japan; Takefumi Mori, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan
- P128 Intensive blood pressure treatment and Renal Outcomes in Diabetic Patients**
Ling Wang, Supratik Rayamajhi, Donna Wang, Michigan State Univ, East Lansing, MI
- P129 Renal necrotic tissue induces hypertension**
Jin Wei, Jie Zhang, Lei Wang, UNIVERSITY OF SOUTH FLORIDA, Tampa, FL; Ruisheng Liu, UNIVERSITY OF SOUTH FLORIDA, tampa, FL
- P130 Acute Hyperlipidemia Increases Vasodilation In Conduit Arteries But Has No Effect On Microvascular Recruitment In African American Women**
Jorge E Celedonio, Shahram Mehr, JoAnn Gottlieb, Italo Biaggioni, Cyndya Shibao, VANDERBILT UNIVERSITY MEDICALCENTER, Nashville, TN
- P131 Transdermal Detection of Low Concentrations of Hydrogen Sulfide**
Elani Fourie Wiest, Lynnette Rios, UNIVERSITY OF NEW MEXICO, Albuquerque, NM; Debra Friedrichsen, Grayson Silaski, Exhalix, LLC, Albuquerque, NM; Curtis Mowry, Sandia Natl Labs, Albuquerque, NM; Reza Shekarriz, Exhalix, LLC, Albuquerque, NM; Nancy Kanagy, UNIVERSITY OF NEW MEXICO, Albuquerque, NM
- P132 Everolimus, A Targeted Cancer Therapy, Improves Endothelium Dependent Relaxation In Spontaneously Hypertensive Rat Mesenteric Arteries**
Patricia Martinez Quinones, Cameron G McCarthy, Camilla F Wenceslau, R Clinton Webb, Augusta Univ, Augusta, GA
- P133 Obstructive Sleep Apnea May Exacerbate Carotid Artery Stiffness in Individuals with Chronic Obstructive Pulmonary Disease**
Rachel E Luehrs, The Univ of Iowa, Iowa City, IA; Kerrie L Moreau, The Univ of Colorado, Aurora, CO; Mark Aloia, Howard D Weinberger, Barry Make, Russell Bowler, James D Crapo, Frederick Wamboldt, Natl Jewish Health, Denver, CO; Karin F Hoth, Gary L Pierce, The Univ of Iowa, Iowa City, IA

Poster Presentations (continued)

- P134 Sex Differences in the Effects of Chronic Muscadine Grape Extract Treatment on Cardiac Function Parameters and Aortic Pulse Wave Velocity (PWV) in Hypertensive Transgenic (mRen2)27 Rats**
Fatima Ryalat, Nildris Cruz-Diaz, Jasmina Varagic, Patricia Gallagher, Ann Tallant, Debra Diz, Liliya Yamaleyeva, Wake Forest Univ, Winston Salem, NC
- P135 Bone Mineral Density Is Associated With Vascular Endothelial Function And Arterial Stiffness In Apparently Normal Population From China**
huan liu, Peking Univ Shougang Hosp, Beijing, China; Yongqiang Hong, xiuqin wu, Mindong Hosp Affiliated to Fujian Medical Univ, Fujian, China; Hongyu Wang, Jinbo Liu, Hongwei Zhao, Peking Univ Shougang Hosp, Beijing, China
- P136 A Case Report Of Aortic Dissection With Higher Level Of Pulse Wave Velocity**
Jinbo Liu, Peking Univ Shougang Hosp, Beijing, China; Tianrun Li, Peking Univ Third Hosp, Beijing, China; Huan Liu, Hongwei Zhao, Wei Huang, Lichun Wang, Yuejie Song, Xiaolan Yu, Hongyu Wang, Peking Univ Shougang Hosp, Beijing, China
- P137 Arterial Stiffness In Diabetic Patients On Oral Antidiabetic Agents V/s A Combination Of Oral Antidiabetic Agents Plus Insulin**
Joaquin Cigarroa, Ignacio DiCicco, Son Pham, Joan Hecht, Robert Chilton, Rene Oliveros, UNIVERSITY OF TEXAS HEALTH SCIENCE, San Antonio, TX
- P138 The Arterial Wall Of The Central Vascular Compartment A Novel Target Of Iron-overload Disorders: A Preliminary Study With Experimental Correlation In Animals**
Mariano Duarte, Analia Aquieri, Javier Coyle, Claudio Yaryour, Esteban Gonzalez Ballerga, Hosp de Clinicas Facultad de Me, Buenos Aires, Argentina; Carlos Reyes Toso, Cátedra de Fisiología Facultad de Medicina UBA, Buenos Aires, Argentina
- P139 Endothelial Bbsome Is Essential For Vascular Endothelial Function**
Jingwei Jiang, John J Reho, Donald A Morgan, Kamal Rahmouni, Univ of Iowa Carver Coll of Med, Iowa City, IA
- P140 Leptin Supplementation Restores Endothelial Function And Vascular Adrenergic Tone Via Direct Endothelial Mechanisms And Sympato-activation, Respectively, In A Mouse Model Of Congenital Lipodystrophy**
Thiago B Bruder-Nascimento, Jessica Faulkner, Simone Kennard, Weiqin Chen, Eric Belin de Chantemele, AUGUSTA UNIVERSITY, Augusta, GA
- P141 Aging In Mice Enhances Microvascular Reactive Oxygen Species (ROS) That Impair The Anti-contractile Actions Of Perivascular Adipose Tissue (PVAT)**
Tian Li, Christopher S WILCOX, Dan Wang, Georgetown Univ Div of Nephrology, Washington, DC
- P142 Aberrant Notch2 Signaling in the Vascular Endothelium Leads to Increased Proliferation and Migration Operant in Pulmonary Arterial Hypertension**
Sanghamitra Sahoo, John C Sembrat, Mauricio Rojas, Elena A Goncharova, Patrick J Pagano, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA
- P143 Nox1 Elicits Endothelial Cell Proliferation in a CREB- and Ref-1- Dependent Manner**
Daniel de Jesus, Yao Li, Evan DeVallance, Patrick Pagano, Univ of Pittsburgh, Pittsburgh, PA
- P144 Characterization of Vascular Endothelial and Smooth Muscle Exosomes and Their Role in Vascular SignalTransduction**
Michael Boyer, Temple Univ, Philadelphia, PA; Yayoi Kimura, Yokohama City Univ, Yokohama, Japan; Satoru Eguchi, Victor Rizzo, Temple Univ, Philadelphia, PA
- P145 The Bacterial Metabolite Trimethylamine (TMA), but not Trimethylamine N-oxide (TMAO), Causes Vascular Contraction**
Carolina B Restini, Gregory D Fink, Stephanie W Watts, Michigan State Univ - MSU, East Lansing, MI
- P146 Cytochrome B5 Reductase (CYB5R3) Function in Smooth Muscle Cells and Blood Pressure Regulation**
Brittany G Durgin, Scott A. Hahn, Megan P. Miller, Adam C. Straub, Univ of Pittsburgh, Pittsburgh, PA
- P148 Muscarinic Acetylcholine Receptors Are Localized To Primary Endothelial Cilia And Involved In Nitric Oxide Signaling**
Hannah C Saternos, Hayley Gibson, Mahmood Meqdad, Wissam A AbouAlaiwi, UNIVERSITY OF TOLEDO, Toledo, OH
- P149 VEGF Inhibitor-induced Hypertension And Renal Injury: Prevention By Aspirin?**
Katrina M Mirabito Colafella, Monash Univ, Melbourne, Australia; Karla B Neves, Univ of Glasgow, Glasgow, United Kingdom; Augusto C Montezano, Uinversity of Glasgow, Glasgow, United Kingdom; Richard van Veghel, Ingrid M Garrelds, Erasmus Medical Ctr, Rotterdam, Netherlands; Hans J Baelde, Leiden Univ Medical Ctr, Leiden, Netherlands; Anton H van den Meiracker, Erasmus Medical Ctr, Rotterdam, Netherlands; Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom; AH Jan Danser, Erasmus Medical Ctr, Rotterdam, Netherlands; Jorie Versmissen, Erasmus Medical Ctr, Rotterdam, Netherlands
- P150 Chronic Exercise Provides Antihypertensive Effects with Upregulation of Oxidative Stress-Induced Nitric Oxide Upregulation in The Kidney of High-Fructose Fed Rat**
Gaizun Hu, Lusi Xu, Masahiro Kohzuki, tohoku university graduate school of medicine, sendai, Japan; Osamu Ito, tohoku medical and pharmaceutical university, sendai, Japan

Poster Presentations (continued)

- P151 Short- and Long-Term Induction of Human Endothelin-1 Overexpression in Mice Up-Regulated the Expression of Kdrbs3 in Mesenteric Arteries**
Olga Berillo, Suellen C Coelho, Ku-Geng Huo, Sofiane Ouerd, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Chantal Richer, Daniel Sinnett, CHU Ste-Justine, Montreal, QC, Canada; Pierre Paradis, Ernesto L Schiffrin, Lady Davis Inst for Medical Res, Montreal, QC, Canada
- P152 Exercise Training Upregulates Nrf2 Gene Expression in the RVLM of Mice with Heart failure**
Ahmed M Wafi, Lie Gao, Li Yu, Irving H Zucker, Univ of Nebraska Medical Cent, omaha, NE
- P153 Crosstalk Between Vascular Redox and Calcium Signalling in Hypertension Involves Transient Receptor Potential Melastatin 2 (TRPM2) Channel**
Rhéure Alves-Lopes, Karla B Neves, Aikaterini Anagnostopoulou, Univ of Glasgow, Glasgow, United Kingdom; Silvia Lacchini, Univ of Sao Paulo, Sao Paulo, Brazil; Augusto C Montezano, Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom
- P154 Central acetylcholinesterase inhibitor, galantamine, prevents lipid-induced oxidative stress in African Americans**
Jorge E Celedonio, Shahram E Mehr, Sachin Paranjape, Andre Diedrich, Italo Biaggioni, Cyndya A Shibao, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN
- P155 B Cells Are Not Necessary For The Development Of Ang II-induced Hypertension And End-organ Damage**
Yuhan Chen, Vanderbilt Univ Medical Ctr, nashville, TN; Bethany L Dale, Vanderbilt Univ, Nashville, TN; Arvind Kant Pandey, Vanderbilt Univ, nashville, TN; Matthew R Alexander, Fanny Laroumanie, Meena S Madhur, Vanderbilt Univ Medical Ctr, nashville, TN
- P156 Toll-Like Receptor 2 Deficiency Exacerbates Deoxycorticosterone Acetate-Salt-Induced Hypertension**
Estrellita Ujil, David Severs, A.H. Jan Danser, Robert Zietse, Ewout J. Hoorn, Erasmus MC, Rotterdam, Netherlands
- P157 Immunophenotyping Human Hypertension Using Single Cell Mass Cytometry**
Matthew R Alexander, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN; Bethany L Dale, Cara E Wogsland, VANDERBILT UNIVERSITY, Nashville, TN; Fernando Eljovich, Jonathan M Irish, Meena S Madhur, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN
- P158 Sulforaphane Rich Broccoli Powder Attenuates the Augmented Angiotensin II Induced Renal Inflammation and Injury in GSTM1 Deficient Mice**
Shirin Pourafshar, Sylvia Cechova, Sun-Sang J Sung, Univ of Virginia, Charlottesville, VA; Phillip Ruiz, Univ of Miami Health System, Miami, FL; Guang Yang, Heinrich-Heine Univ of Dusseldorf, Dusseldorf, Germany; Thu Le, Univ of Virginia, Charlottesville, VA
- P159 Neural Inflammation Results in Cardiac Sympathetic Afferent Sensitization in Post-Myocardial Infarction Rats**
Juan Hong, UNMC, Omaha, NE
- P160 Hypertension Is Associated with Monocytes Activation in the Blood in Mice and Humans**
Luciana S Carmo, Liang Xiao, Roxana Loperena, Fernando Eljovich, Natalia Rugerri Barbaro, David Harrison, Vanderbilt Univ Medical Ctr, Nashville, TN
- P161 Effect of Rapamycin on the Expression of T Regulatory Cells, Foxp3, and Toll-Like Receptors in the Kidneys of Npr1 Gene-Knockout Mice**
Venkateswara R Gogulamudi, Indra Mani, Umadevi Subramanian, Kailash Nath Pandey, TULANE SOM PHYSIOLOGY, New Orleans, LA
- P162 Adiposity-induced Hypertension is Associated with Sex-specific Macrophage Infiltration of Mesenteric Perivascular Adipose Tissue in Dahl S Rats**
Ramya K Kumar, Cheryl E Rockwell, Alexandra E Turley, Hannah Garver, Gregory D Fink, Stephanie W Watts, Michigan State Univ, East Lansing, MI
- P164 Inflammatory Cell Populations In A Mouse Model Of Cardiorenal Syndrome**
Suang Suang Koid, Intl Univ of Health and Welfare, Tokyo, Japan; Francis H Shand, Satoshi Ueha, Kouji Matsushima, The Univ of Tokyo, Tokyo, Japan; Tatsuo Shimosawa, Intl Univ of Health and Welfare, Tokyo, Japan
- P165 Genetic Polymorphisms Linked to Diabetes with Chronic Renal Insufficiency**
Ling Wang, Donna Wang, Michigan State Univ, East Lansing, MI
- P166 Identification of Cyr61 and Tfgbi as Hypertensive Renal LEC Genes**
Dakshnapriya Balasubramanian, Catalina A Lopez-Geslton, Pauline Ighofose, Micaela Saathoff, Joesph M Rutkowski, Brett M Mitchell, Texas A and M Univ HSC, College Station, TX
- P167 Altered Gut Microbiome Contributes To Metabolite Biomarkers In Patients With Pulmonary Hypertension**
Seungbum Kim, Jacquelyn M Walejko, UNIVERSITY OF FLORIDA, Gainesville, FL; Katya Rigatto, Univ Federal de Ciências da Saúde de Porto Alegre, Porto Alegre, Brazil; Ray Jordan, Brian Shapiro, Mayo Clinic, Jacksonville, FL; Carl J Pepine, Elaine M Richards, Mohan K Raizada, UNIVERSITY OF FLORIDA, Gainesville, FL
- P169 Characterization of the Peak Exercise Blood Pressure Response During Cardiopulmonary Exercise Testing in African American and Caucasian American Men**
Ahmad Sabbahi, Ross Arena, Univ of Illinois at Chicago, Chicago, IL; Leonard Kaminsky, Ball State Univ, Muncie, IN; Jonathan Myers, VA Palo Alto Health Care System, Palo Alto, CA; Bo Fernhall, Shane Phillips, Univ of Illinois at Chicago, Chicago, IL

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P170 Morning Surge and Cardiovascular Events in African Americans: The Jackson Heart Study

John N Booth, UNIVERSITY OF ALABAMA AT BIRMI, Birmingham, AL; Marwah Abdalla, Columbia Univ, New York, NY; Mario Sims, Univ of Mississippi Medical Ctr, Jackson, MS; Mark Butler, Tanya Spruill, New York Univ, New York, NY; Paul Muntner, UNIVERSITY OF ALABAMA AT BIRMI, Birmingham, AL; Daichi Shimbo, Columbia Univ, N, NY

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

Rachel Climie, INSERM, U970, Dept of Epidemiology; Paris Descartes university, Paris, France, Paris, France; Pierre Boutouyrie, INSERM, U970, APHP, Paris Descartes university, Paris, France; Edward Chaussade, APHP, Paris Descartes university, Paris, France; Marie-Cecile Perier, INSERM, U970, Dept of Epidemiology; Paris Descartes university, Paris, France; Mathew Plichart, APHP, Paris Descartes university, Paris, France, Paris, France; Lucile Offrendo, Catherine Guibout, Thomas van Sloten, INSERM, U970, Dept of Epidemiology; Paris Descartes university, Paris, France; Frederique Thomas, Bruno Pannier, Investigations Préventives et cliniques (IPC), Paris, France; James Sharman, Menzies Inst for Medical Res, Hobart, Australia; Stephane Laurent, INSERM, U970, APHP, Paris Descartes university, Paris, France; Xavier Jouven, Jean-Philippe Empana, INSERM, U970, Dept of Epidemiology; Paris Descartes university, Paris, France

P172 A Correlative Study Of Cuff Hypertension And Anthropometric Variables In Obese And Non Obese Subjects

Abhishek Saini, Ajoy Krishnamurthy, MVJ Medical college & Res Hosp, Bengaluru, India; Chandrashekar Bohra, Univ of South Florida, Tampa, FL

P173 Sex Differences in The Diurnal Natriuretic Response to Benzamil in Sprague Dawley Rats

Reham H Soliman, Jermaine G Johnston, Eman Y Gohar, David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL

P174 Loss Of Bmal1 In The Collecting Duct Lowers Blood Pressure In Male, But Not Female, Mice

Dingguo Zhang, Chunhua Jin, Binli Tao, David M. Pollock, Univ of Alabama at Birmingham, Birmingham, AL

P175 Influence of Age and Estradiol on Blood Pressure Responses to Exercise

Megan M Wenner, Univ of Delaware, Newark, DE; Evan L. Matthews, Montclair State Univ, Montclair, NJ; Jasdeep Kaur, Univ of Texas at Arlington, Arlington, TX; Jody L. Greaney, The Pennsylvania State Univ, State College, PA; Paul J. Fadel, Univ of Texas at Arlington, Arlington, TX

P176 Hypertension Is Mediated By An Angiotensin II-dependent Mechanism In Adipocyte Prorenin Receptor KO Female Mice And By The Para-sympathetic Nervous System In Adipose Prorenin Receptor KO Male Mice

Eva Gatineau, Ming Gong, Frederique Yiannikouris, Univ of Kentucky, Lexington, KY

P177 The Roles Of Estrogen-related Receptor Alpha In Cardiometabolic Control

Kenji SAITO, Yue Deng, Kevin C Davis, Jing Wu, Masashi Mukoda, Curt D Sigmund, Huxing Cui, The Univ of Iowa, Iowa City, IA

P179 Placental Ischemia-induced Hypertension Is Attenuated In Melanocortin-4 Receptor (MC4R)-deficient Pregnant Rats

Frank T Spradley, Joey P Granger, U of Mississippi Medical Ctr, Jackson, MS

P180 Cardiac Small Vessel Imaging by Light Sheet Microscopy and Micro CT – Discovering the Missing Link between Preeclampsia and Higher Risk for Further Cardiovascular Disease

Kristin Kraeker, Nadine Haase, Experimental and Clinical Res Ctr; Max-Delbrück-Ctr for Molecular Med; Berlin Inst of Health; German Ctr for Cardiovascular Res, Berlin, Germany; Florian Herse, Experimental and Clinical Res Ctr; Max-Delbrück-Ctr for Molecular Med; Charité – Univmedizin Berlin; Berlin Inst of Health, Berlin, Germany; Stefan Verlohren, Charité – Univmedizin, Berlin, Germany; Arnd Heuser, Anje Sporbert, Matthias Richter, Max-Delbrueeck-Ctr for Molecular Med, Berlin, Germany; Jamie O’Driscoll, Basky Thilaganathan, St George’s Healthcare NHS Trust, London, United Kingdom; Dominik N. Mueller, Experimental and Clinical Res Ctr; Max-Delbrück-Ctr for Molecular Med; Charité - Univmedizin; Berlin Inst of Health; German Ctr for Cardiovascular Res, Berlin, Germany; Ralf Dechend, Experimental and Clinical Res Ctr; Charité – Univmedizin Berlin; Berlin Inst of Health; Helios Klinikum, Berlin, Germany

P181 Hypertension Treatment Disruption During Pregnancy Among Women With Chronic Hypertension

Lu Chen, Susan M Shortreed, Kaiser Permanente Washington Health Res Inst, Seattle, WA; Thomas Easterling, Univ of Washington, Seattle, WA; T. Craig Cheetham, Kaiser Permanente Southern California, Dept of Res & Evaluation, Pasadena, CA; Victoria Holt, Univ of Washington, Seattle, WA; Lyndsay A Avalos, Kaiser Permanente Northern California, Div of Res, Oakland, CA; Rod Walker, Aruna Kamineni, Kaiser Permanente Washington Health Res Inst, Seattle, WA; Kristi Reynolds, Kaiser Permanente Southern California, Dept of Res & Evaluation, Pasadena, CA; Sascha Dublin, Kaiser Permanente Washington Health Res Inst, Seattle, WA

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- P182 Daily Subcutaneous Administration of a Biopolymer-Stabilized VEGF Chimera Optimizes Therapeutic Efficacy in Treating a Rodent Model of Placental Ischemia**
Omar C Logue, Stephen P Burke, Eric M George, Gene L Bidwell III, UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, MS
- P183 Maternal Obesity is Associated with Altered Cardiovascular Remodeling During Pregnancy**
Katherine Shreyder, Maira Carrillo, James Maher, Natalia Schlabritz-Loutsevitch, Texas Tech Health Sciences Ctr at Permian Basin, Odessa, TX
- P184 Coordinated Control Of Cardiac Contractility By Multiple RGS Proteins**
Tyler F Bernadyn, Jackson G Marshall, Shelby A Dahlen, Matthew M Meleka, Elizabeth A Owens, Patrick Osei Owusu, DREXEL UNIVERSITY COLLEGE OF MED, Philadelphia, PA
- P185 Periostin Increases Inducible Nitric Oxide Synthase Expression In Right Ventricular Fibroblasts From Pulmonary Arterial Hypertension Rats**
Keisuke Imoto, Muneyoshi Okada, Hideyuki Yamawaki, Sch of Veterinary Med, Kitasato Univ, Towada, Aomori, Japan
- P186 Reversion Of Severe Cardiac And Renal Dysfunction With Surgical Correction Of Atypical Aortic Coarctation In Adult Patient: Case Report**
Alexandre L Bortolotto, Faculty of Med, São Paulo Univ, São Paulo, Brazil; Rogerio B Filho, Everton L Moreira, Faculty of Med, Sao Paulo Univ, São Paulo, Brazil; Luis A Dallan, Luiz Bortolotto, Heart Inst (InCor), São Paulo, Brazil
- P187 Elevated resting heart rate is associated with dyslipidemia in Chinese rural population: The Henan Rural Cohort Study**
Xia Zhang, Chongjian Wang, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China; Yuqian Li, Sch of Pharmaceutical Science, Zhengzhou Univ, Zhengzhou, China; Songcheng Yu, Xiaotian Liu, Runqi Tu, Haiqing Zhang, Kaili Yang, Dou Qiao, Xue Liu, Gongyuan Zhang, Zhenxing Mao, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China
- P188 Adipose-Specific Deletion of Angiopoietin-like 4 Protects Against High Fat Diet Induced Dyslipidemia**
Kathryn M Spittle, Emily M Cushing, Shwetha Shetty, Brandon S Davies, Univ of Iowa, Iowa City, IA
- P189 The Prorenin Receptor And Its Soluble Form Stimulate Hepatic Triglyceride And Cholesterol Metabolism In Male Mice**
Eva Gatineau, Frédérique Yiannikouris, Univ of Kentucky, Lexington, KY
- P190 The Angiotensin AT1A Receptor Couples to G-alpha-i in Agouti-Related Peptide-Expressing Neurons to Control Resting Metabolic Rate**
Guorui Deng, Sarah A Sapouckey, Charles A Warwick, Yuriy M Usachev, Julien A Sebag, Huxing Cui, Justin L Grobe, UNIVERSITY OF IOWA, Iowa City, IA
- P191 Sexually Dimorphic Metabolic or Lethal Consequences of Disrupting Angiotensinogen in Agouti Related Peptide-Expressing Cells**
Sarah A Sapouckey, Guorui Deng, Nicole A Pearson, Justin L Grobe, UNIVERSITY OF IOWA, Iowa City, IA
- P192 Trpc6 Deficiency Causes Obesity, Impaired Glucose Tolerance And Leptin Resistance**
Zhen Wang, Jussara M. do Carmo, Alexandre A. da Silva, Sydney P. Moak, Kandice C. Bailey, John E. Hall, Univ of Mississippi Medical Ctr, Jackson, MS
- P193 Angiotensin-(1-7) Acutely Induces Browning of White Adipose Tissue in Mice**
Amanda J Miller, Melissa White, Sarah S Bingaman, Amy C Arnold, PENNSYLVANIA STATE UNIVERSITY COLLEGE, Hershey, PA
- P194 Body silhouette trajectories across the lifespan and vascular aging: The Paris Prospective Study 3**
Thomas van Sloten, Pierre Boutouyrie, Quentin Lisan, Muriel Tafflet, Inserm U970, Paris, France; Frédérique Thomas, Preventive and Clinical Investigation Ctr, Paris, France; Catherine Guibout, Rachel Climie, Bruno Pannier, Inserm U970, Paris, France; James Sharman, Menzies Inst for Medical Res, Hobart, Australia; Stéphane Laurent, Xavier Jouven, Jean-Philippe Empana, Inserm U970, Paris, France
- P195 Blood Pressure Is Related To Glucose Fluctuation In Longstanding Type 1 Diabetes**
Anna Shalimova, Beata Graff, Anna Szyndler, Jacek Wolf, Magdalena Blaszkowska, Elzbieta Orłowska-Kunikowska, Bogumil Wolnik, Krzysztof Narkiewicz, Medical Univ of Gdansk, Gdansk, Poland
- P196 Fenofibrate Improves Vascular Contractility And Endothelial Function In Diabetic Mice**
Nan Xu, Qin Wang, Zhejiang Univ, HangZhou, China; Qi J Wang, Affiliated Women's Hosp of Zhejiang Univ, HangZhou, China; Shan Jiang, Su H Zhou, Liang Zhao, En Y Lai, Zhejiang Univ, HangZhou, China
- P197 Vacuolar-type H+-ATPase Enhances Renal (Pro) renin Expression And Inflammation In Response To High Glucose**
Safia Akhtar, Rebecca Mc Devitt, Silas A Culver, Caixia Li, Helmy M Siragy, Dept of Endocrinology, Sch of Med, Univ of Virginia, Charlottesville, VA
- P198 WNK-SPAK-NKCC1 Cascade Activation Contributes to Worsened Brain Damage in Mice with Hypertension Co-morbidity after Ischemic Stroke**
Mohammad Iqbal H Bhuiyan, Huachen Huang, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Ting Zhang, Xiamen Univ, Xiamen, Fujian, China; Bradley J Molyneaux, Samuel M Poloyac, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Jinwei Zhang, Univ of Exeter Medical Sch, Exeter, United Kingdom; Xianming Deng, Xiamen Univ, Xiamen, Fujian, China; Dandan Sun, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Dandan Sun, Veterans Affairs Pittsburgh Health Care System, Pittsburgh, PA

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- P199 The associations between blood pressure parameters and stroke in Chinese rural population: The Henan Rural Cohort Study**
Xia Zhang, Xiaotian Liu, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China; Yuqian Li, Sch of Pharmaceutical Science, Zhengzhou Univ, Zhengzhou, China; Xinyu Zhao, The First Affiliated Hosp, Zhengzhou Univ, Zhengzhou, China; Min Liu, Henan Provincial People's Hosp, Zhengzhou, China; Runqi Tu, Xinling Qian, Haiqing Zhang, Wen Zhou, Zhongyan Tian, Dou Qiao, Linlin Li, Zhenxing Mao, Gongyuan Zhang, Wang Chongjian, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China
- P200 Night sleep duration and hypertension in Chinese rural population: the Henan Rural Cohort Study**
Haiqing Zhang, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China; Yuqian Li, Sch of Pharmaceutical Science, Zhengzhou Univ, Zhengzhou, China; Zhenxing Mao, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China; Min Liu, Henan Provincial People's Hosp, Zhengzhou, China; Wenqian Huo, Ruihua Liu, Xiaotian Liu, Runqi Tu, Kaili Yang, Xinling Qian, Jingjing Jiang, Xia Zhang, Zhongyan Tian, Ronghai Bie, Chongjian Wang, Coll of Public Health, Zhengzhou Univ, Zhengzhou, China
- P201 Exposure to Stress and Low Salt Diet Increases Blood Pressure in Mice Lacking the Brain-specific Renin Isoform Renin-b**
Pablo Nakagawa, Javier A Gomez, Fernando De Azevedo Cruz Seara, Curt D Sigmund, Univ of Iowa, Iowa City, IA
- P202 Targeting the Cardiac Sympathetic Afferent Reflex in Hypertrophic Cardiomyopathy**
Robert A Larson, Yongjun Lu, Christopher J Benson, Mark W Chapleau, Univ of Iowa, Iowa City, IA
- P203 Cumulative Incidence of Orthostatic Intolerance After Bariatric Surgery**
James B Zhang, Robyn A Tamboli, Vance L Albaugh, Donna M Kilkelly, Carlos G Grijalva, David B Williams, Cyndya A Shibao, Vanderbilt Univ Medical Ctr, Nashville, TN
- P204 Induction of Endoplasmic Reticulum Stress Upregulates Renin Expression in Immortalized Mouse Hypothalamic N43/5 Cells**
Javier A. Gomez, Pablo Nakagawa, Curt D. Sigmund, Univ of Iowa, Iowa City, IA
- P205 Age-dependent Alteration in Expression of Brain-derived Neurotrophic Factor and Its Receptors in Central Nervous System of Spontaneously Hypertensive Rats**
Kosuke Otani, Muneyoshi Okada, Hideyuki Yamawaki, Sch of Veterinary Med, Kitasato Univ, Towada, Aomori, Japan
- P206 Interarm Difference In Blood Pressure: Prevalence, Risk Factors, and Relevance for Diagnosis of Disease of the Aorta Among Patients Referred to Specialized Regional Hypertension Center**
Januvi Jegatheswaran, Swapnil Hiremath, Cedric Edwards, Marcel Ruzicka, Ottawa Hosp, Ottawa, ON, Canada
- P207 Unattended Automated Office Blood Pressure compared to Loaned Self-Blood Pressure Measurement in Hypertensive Patients**
Jose Rafael Vega Ramirez, César Gonzálo Calvo Vargas, Hosp Civil de Guadalajara, Guadalajara, Mexico
- P208 Association of Baseline Medication Burden with Blood Pressure Control, Patient-Reported Outcomes, and Serious Adverse Events: Findings from the SPRINT Trial**
Catherine G Derington, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Dept of Clinical Pharmacy, Aurora, CO; Tyler H Gums, Univ of Texas at Austin, Div of Health Outcomes and Pharmacy Practice, Austin, TX; Adam P Bress, Univ of Utah, Dept of Population Health Sciences, Sch of Med, Salt Lake City, UT; Jennifer S Herrick, Univ of Utah, Salt Lake City, UT; Tom H Greene, Univ of Utah, Div of Biostatistics, Salt Lake City, UT; Andrew E Moran, Ian M Kronish, The Columbia Hypertension Ctr, Columbia Univ Medical Ctr, New York, NY; Donald E Morisky, Univ of California Los Angeles, Fielding Sch of Public Health, Los Angeles, CA; Katy E Trinkley, Joseph J Saseen, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Dept of Clinical Pharmacy, Aurora, CO; Kristi Reynolds, Kaiser Permanente Southern California, Res and Evaluation, Pasadena, CA; Jordan B King, Kaiser Permanente Colorado, Dept of Pharmacy, Aurora, CO
- P209 Antihypertensive Medication Non-Adherence is Common in Patients with Suspected Refractory Hypertension**
Mohammed Siddiqui, Eric K Judd, Tanja Dudenbostel, Univ of Alabama at Birmingham, Birmingham, AL; Pankaj Gupta, Univ of Leicester, Leicester, United Kingdom; Maciej Tomaszewski, Univ of Manchester, Manchester, United Kingdom; Prashanth Patel, Univ of Leicester, Leicester, United Kingdom; Suzanne Oparil, David A Calhoun, Univ of Alabama at Birmingham, Birmingham, AL
- P210 Blood pressure medication adherence among Medicare beneficiaries, causes and consequences**
William Aitken, Lara Bakhos, Loyola Univ Chicago, Maywood, IL
- P211 Increased Salt Intake Decreases Postprandial Energy Expenditure in Healthy Volunteers - a Randomized Clinical Study**
Anja Mähler, Nicola Wilck, Charité Univsmedizin Berlin, Berlin, Germany; Samuel Klamer, DZHK (German Ctr for Cardiovascular Res), partner site Berlin, Berlin, Germany; Andras Balogh, Lars Klug, Michael Boschmann, Charité Univsmedizin Berlin, Berlin, Germany; Dominik N Müller, Max Delbruck Ctr for Molecular Med, Berlin, Germany
- P212 Splanchnic And Hepatic Portal Hemodynamics In The Hypotensive Actions Of 5-HT Bridget**
Mahon Seitz, Gregory D Fink, Stephanie W Watts, Michigan State Univ, East Lansing, MI

Poster Presentations (continued)

- P213 Angiotensin Converting Enzyme Inhibitors (ACEI) Increase Antifibrotic Biomarkers in African American Patients with Hypertension and Left Ventricular Hypertrophy**
Cesar A Romero, HENRY FORD HEALTH SYSTEM, Detroit, MI; Brian Reed, Shobi Mathew, Aaron Brodi, Rachel Dawood, Michael Twiner, Dept of Emergency Med and Integrative Biosciences Ctr, Wayne State Univ, Detroit, MI; Candance McNaughton, Dept of Emergency Med, Vanderbilt Univ, Nashville, TN; John M Flack, Dept of Internal Med, Southern Illinois Univ, Springfield, IL; Oscar A Carretero, HENRY FORD HEALTH SYSTEM, Detroit, MI; Phillip D Levy, Dept of Emergency Med and Integrative Biosciences Ctr, Wayne State Univ, Detroit, MI
- P214 Serum Glucocorticoid Kinase 1 and Sympathetic Nerve Activity in Salt-Sensitive Hypertension**
Justin P Van Beusecum, Natalia R Barbaro, Liang Xiao, Arvind K Pandey, David G Harrison, Annet Kirabo, Vanderbilt Univ Medical Ctr, Nashville, TN
- P215 Role of Nox4 - H2O2 production in activation of mTORC1 in salt-induced hypertension and kidney injury in Dahl S rats**
Vikash Kumar, Theresa Kurth, Allen Cowley, MEDICAL COLLEGE WISCONSIN, Milwaukee, WI
- P216 The Circadian Clock Protein BMAL1 in the Kidney Contributes to Blood Pressure Control in Male Mice Gene**
Ryan Crislip, Lauren G. Douma, Sarah Masten, Kit-Yan Cheng, I. Jeanette Lynch, Meaghan Holzworth, Dominique Barral, Amber Miller, Karyn A. Esser, Charles S. Wingo, Michelle L. Gumz, Univ of Florida, Gainesville, FL
- P217 Evidence for Impaired Diurnal Cardio-Vagal Tone Due to p67phox in Dahl Salt-Sensitive Rats**
Bryan K Becker, Daian Chen, Jackson C Colson, Chunhua Jin, Univ of Alabama at Birmingham, Birmingham, AL; Allen W Cowley Jr., Aron Geurts, Medical Coll of Wisconsin, Milwaukee, WI; Martin E Young, Jennifer S Pollock, David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL
- P218 Downregulation Of Renal Tumor Necrosis Factor-alpha Production In Response To Hypotonic Stress Facilitates Adaptive Increases In Renal Cortical Angiotensinogen And Nkcc2b**
Shoujin Hao, Joseph Salzo, Mary Hao, Nicholas R. Ferreri, NEW YORK MEDICAL COLLEGE, Valhalla, NY
- P219 Site-1 Protease-Derived Soluble (Pro)Renin Receptor Contributes to Salt-Sensitive Hypertension via Activation of the Intrarenal RAS**
Fei Wang, Kexin Peng, Shiyong Xie, Kevin Yang, Renfei Luo, Tianxin Yang, UNIVERSITY OF UTAH, Salt Lake Cty, UT
- P220 High Salt Intake Induces Catabolism Accompanied By Hepatic Urea Osmolyte Production And Decreases Renal Sympathetic Nerve Activity**
Norihiro Morisawa, Div of Nephrology & Hypertension, Dept of Internal Med, Jikei Univ Sch of Med, Tokyo, Japan; Kento Kitada, Cardiovascular and Metabolic Disorders, Duke-NUS Medical Sch, Singapore, Singapore; Daisuke Yamazaki, Daisuke Nakano, Dept of Pharmacology, Faculty of Med, Kagawa Univ, Kagawa, Japan; Yoshihide Fujisawa, Life Science Res Ctr, Kagawa Univ, Kagawa, Japan; Jens Titze, Cardiovascular and Metabolic Disorders, Duke-NUS Medical Sch, Singapore, Singapore; Akira Nishiyama, Dept of Pharmacology, Faculty of Med, Kagawa Univ, Kagawa, Japan
- P221 The mechanism of Salt-sensitive Hypertension in Intermittent Hypoxia**
Alimila Yeerbolati, Sayoko Ogura, Univ of Tokyo, Faculty of Med, Tokyo, Japan; Tatsuo Shimomura, Intl Univ of Health and Welfare, Sch of Med Mita Hosp, IUHW Dept. of Clinical Lab, Tokyo, Japan; Hideyuki Maeda, The Medical Univ of Tokyo, Tokyo, Japan
- P222 Oxidative Stress Causes Salt Sensitive Hypertension Via Activation Of Na+-Cl- Cotransporter (ncc)**
Conghui Wang, Tatsuo Shimomura, Reheman Latapati, SuangSuang Koid, Intl Univ of Health and Welfare, Narita, Japan; Yeerbolati Alimila, BeiBei Liu, The Univ of Tokyo, Tokyo, Japan; Sayoko Ogura, Nihon Univ, Tokyo, Japan; Fumiko Mori, Mitsui Memorial Hosp, Tokyo, Japan; Toshiro Fujita, The Univ of Tokyo, Tokyo, Japan
- P223 Identification of Chromosome 2 Differentially Expressed Genes Linked to Vascular Inflammation Using Congenic Rats Fed a Normal and High-Salt Diet**
Olga Berillo, Sofiane Ouerd, Ku-Geng Huo, Asia Rehman, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Chantal Richer, Daniel Sinnett, Sainte-Justine Univ Hosp, Montreal, QC, Canada; Anne E Kwitek, Univ of Iowa, Iowa, IA; Pierre Paradis, Ernesto L Schiffrin, Lady Davis Inst for Medical Res, Montreal, QC, Canada
- P224 Urinary Excretion of Sodium, Potassium, Calcium and Magnesium and Blood Pressure Among a Population of ≥ 20-year-olds: Evidence From Southwest Coastal Bangladesh**
Abu Mohd Naser Titu, Dept of Environmental Health Sciences, Rollins Sch of Public Health, Emory Univ, Atlanta, GA; Mahbubur Rahman, Leanne Unicomb, Solaiman Doza, Intl Ctr for Diarrhoeal Disease Res, Bangladesh (icddr,b), Dhaka, Bangladesh; Kazi Matin Uddin Ahmed, Dept of Geology, Univ of Dhaka, Dhaka, Bangladesh, Dhaka, Bangladesh; Shahjada Selim, Dept of Endocrinology, Bangabandhu Sheikh Mujib Medical Univ, Dhaka, Bangladesh; Shuchi Anand, Div of Nephrology, Stanford Sch of Med, Stanford Univ, Stanford, CA; Howard Chang, Dept of Biostatistics and Bioinformatics, Rollins Sch of Public Health, Emory Univ, Atlanta, GA; Stephen Luby, Woods Inst for the Environment, Stanford Univ, Stanford, California, Stanford, CA; Thomas Clasen, Matthew Gribble, Dept of Environmental Health Sciences, Rollins Sch of Public Health, Emory Univ, Atlanta, GA; KM Venkat Narayan, Emory Global Diabetes Res Ctr, Hubert Dept of Global Health, Rollins Sch of Public Health, Emory Univ, Atlanta, GA

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- P225 Associations Between Sleep, Physical Activity and Blood Pressure Among Black Women: Baseline Results from the SisterTalk At Home Intervention for Weight Loss**
Augustine W. Kang, Patricia M. Risica, Brown Univ, Providence, RI
- P226 Reducing Sympathetic Activity And Cardiac Preload Have Differential Effects On Mean And Pulsatile Blood Pressure Components**
Luca Faconti, Bushra Farukh, Phil Chowienczyk, King's Coll London, London, United Kingdom
- P227 The Feasibility of Interventions to Increase Potassium Intake for Hypertension: A Systematic Review of the Evidence Maryam**
Basim Zaree, Marcel Ruzicka, Rana Hassan, Swapnil Hiremath, Ottawa Hosp, Ottawa, ON, Canada
- P228 Text-Facilitated Home Blood Pressure Monitoring: A Qualitative Analysis of Health Behavior Change**
Matthew Allen, Taya Irizarry, Julian Einhorn, Brian Suffoletto, Thomas Kamarck, Lora Burke, Bruce Rollman, Matthew F Muldoon, UNIV OF PITTSBURGH, Pittsburgh, PA
- P229 Effect of Management of Hypertensive Susceptible Population: a case-control study in Shanghai, China**
Liang Tongtong, Xu Dongli, Zhang Jinling, Minhang District Ctr for Disease Control and Prevention, Shanghai, China
- P230 Food Insecurity is Associated with Hypertension in Children and Adolescents Independent of Obesity**
Andrew Michael South, Deepak Palakshappa, Callie Brown, WAKE FOREST SCHOOL OF MEDICINE, Winston Salem, NC
- P231 Circulatory Gene Regulation in Youth with Primary Hypertension and Target Organ Damage**
Fnu Mohammed Arif, Univ of Cincinnati, Cincinnati, OH; Elaine Urbina, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH; Sakthivel Sadayappan, Richard Becker, Univ of Cincinnati, Cincinnati, OH
- P232 Hemodynamic Phenotype And Target Organ Damage In Adolescents With Spurious Hypertension**
Lukasz Obrycki, Dept of Nephrology, Kidney Transplantations and Hypertension, Children's Memorial Health Inst, Warsaw, Poland; Janusz Feber, Div of Nephrology, Dept of Pediatrics, Children's Hosp of Eastern Ontario, Univ of Ottawa, Ottawa, ON, Canada; Anna Niemirska, Mieczyslaw Litwin, Dept of Nephrology, Kidney Transplantations and Hypertension, Children's Memorial Health Inst, Warsaw, Poland
- P233 Blood Pressure Variability And Rhythmicity In Adolescents With Spurious Hypertension**
Lukasz Obrycki, Dept of Nephrology, Kidney Transplantations and Hypertension, Children's Memorial Health Inst, Warsaw, Poland; Janusz Feber, Div of Nephrology, Dept of Pediatrics, Children's Hosp of Eastern Ontario, Univ of Ottawa, Ottawa, ON, Canada; Anna Niemirska, Mieczyslaw Litwin, Dept of Nephrology, Kidney Transplantations and Hypertension, Children's Memorial Health Inst, Warsaw, Poland
- P234 Obstructive Sleep Apnea is more common in Patients with Masked Uncontrolled Hypertension**
Mohammed Siddiqui, Stephen J Thomas, Eric K Judd, Tanja Dudenbostel, Susan Harding, Suzanne Oparil, David A Calhoun, Univ of Alabama at Birmingham, Birmingham, AL
- P235 Altered Brain-gut-lung Axis In Hypoxia-induced Pulmonary Hypertension**
Aline C Oliveira, Ravindra K. Sharma, Tao Yang, Victor Aquino, Gilberto O. Lobaton, Andrew J. Bryant, Elaine M. Richards, Mohan K. Raizada, Univ of Florida, Gainesville, FL
- P236 Sodium Accumulates in the Skin of Patients and Mice with Psoriasis**
Lajos Markó, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Johannes Wild, Ctr for Cardiology-Cardiology I, Univ Medical Ctr Mainz, Mainz, Germany; Natalia Rakova, EXPERIMENTAL CLINICAL RSRCH CTR, Berlin, Germany; András Balogh, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Elisa Opitz, EXPERIMENTAL CLINICAL RSRCH CTR, Berlin, Germany; Peter Linz, Inst of Radiology, Friedrich-Alexander-Univ Erlangen-Nürnberg, Erlangen, Germany; Anna Birukov, EXPERIMENTAL CLINICAL RSRCH CTR, Berlin, Germany; Nicola Wilck, Ralf Dechend, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Charité, Berlin, Germany; Jens Titze, Duke-Natl Univ of Singapore, Singapore; Dept of Nephrology and Hypertension&Friedrich-Alexander-Univ Erlangen-Nürnberg, Singapore, Singapore; Markus Kleinewietfeld, VIB Lab of Translational Immunomodulation, VIB Ctr for Inflammation Res (IRC), Hasselt Univ, Diepenbeek, Belgium; Andreas Krause, Andreas Krause, Immanuel Krankenhaus Berlin, Medical Centre for, Germany; Georgios Kokolakis, Sandra Philipp, Dept of Dermatology, Venerology and Allergology, Charité Medical Faculty, Berlin, Germany; Friedrich C Luft, EXPERIMENTAL CLINICAL RSRCH CTR&Max Delbruck Ctr for Molecular Med, Berlin, Germany; Michael Boschmann, EXPERIMENTAL CLINICAL RSRCH CTR&Berlin Inst of Health (BIH), Berlin, Germany; Marcus Kelm, Titus Kühne, Inst for Cardiovascular Computer-assisted Med&German Heart Ctr Berlin, Berlin, Germany; Susanne Karbach, Ctr for Cardiology-Cardiology I, Univ Medical Ctr Mainz, Mainz, Germany; Dominik N Müller, EXPERIMENTAL CLINICAL RSRCH CTR&DZHK (German Ctr for Cardiovascular Res)&Berlin Inst of Health (BIH)&Max Delbruck Ctr for Molecular Med, Berlin, Germany
- P237 Elucidation Of Blood Pressure Control Function Of Essential Hypertension Candidate Gene Lpin1**

Poster Presentations (continued)

- koichiro sumida, Nobuhito Hirawa, Keisuke Yatsu, Yousuke Ehara, Yuki Oki, Megumi Fujita, Akira Fujiwara, Yusuke Kobayashi, Hiromichi Wakui, Satoshi Umemura, Kouichi Tamura, yokohama sity university, yokohama, Japan
- P238 Cerebral Ischemia with Amyloid-beta Infusion Deteriorates Cognitive Decline ~Possible Amelioration of Cognitive Function by AT2 Receptor Activation~**
Li-Juan Min, Masaki Mogi, Hui-Yu Bai, Bao-Shuai Shan, Akinori Higaki, Jun Iwanami, Masatsugu Horiuchi, EHIME UNIVERSITY SCHOOL OF MEDICINE, Tohon, Ehime, Japan
- P239 Toll-Like Receptors 9 (TLR9) Play a Key Role in Cardiac and Vascular Dysfunction Associated with 2-Kydney 1-Clip (2K1C) Hypertension in Mice**
Fernanda Luciano Rodrigues, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil; Ana Carolina Miekko Omoto, UNIVERSITY OF SAO PAULO, Ribeirao Preto, Brazil; Rafael Menezes da Costa, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil; Carlos Alberto Aguiar da Silva, UNIVERSITY OF SAO PAULO, Ribeirao Preto, Brazil; Gisele Facholi Bomfim, Federal Univ of Mato Grosso, Sinop, Brazil; Fernando Silva Carneiro, Rita C. Tostes, Rubens Fazan Junior, UNIVERSITY OF SAO PAULO, Ribeirão Preto, Brazil; Helio C Salgado, UNIVERSITY OF SAO PAULO, Ribeirao Preto, Brazil
- P240 Identifying the Angiotensin AT2-Receptor Coupled Phosphoproteome in Human Aortic Endothelial Cells by Time-Resolved, Quantitative Phosphoproteomics**
Augusto B Peluso, Stefan J Kempf, Univ of Southern Denmark, Odense C, Denmark; Thiago Verano Brega, Federal Univ of Minas Gerais Brazil, Belo Horizonte, Brazil; Michael Bader, Max Delbrück Ctr for Molecular Med, Berlin-Buch, Germany; Martin R Larsen, Univ of Southern Denmark, Odense C, Denmark; Robson A Santos, Federal Univ of Minas Gerais Brazil, Belo Horizonte, Brazil; Ulrike Muscha Steckelings, Univ of Southern Denmark, Odense C, Denmark
- P241 Involvement of Mitochondrial Telomerase Reverse Transcriptase in the restoration of Nitric Oxide Levels by Angiotensin-(1-7) in the Dysfunctional Diabetic CD34+ Cells**
Shrinidh Joshi, NDSU, Fargo, ND; Sam Gomez, Wendy Cantu, Julio Quiroz, Museum District Eye Clinic, Houston, TX; Andreas Beyer, Medical Coll Wisconsin, Milwaukee, WI; Charles A Garcia, Museum District Eye Clinic, Houston, TX; Yagna P Jarajapu, NDSU, Fargo, ND
- P242 Effects Of Proton Receptor Gpr4 Deficiency On Angiotensin Receptors In Kidney And Hindbrain**
Snezana Petrovic, Ellen Tommasi, Xuming Sun, Debra I Diz, WAKE FOREST SCHOOL OF MEDICINE, Winston-Salem, NC
- P243 Vascular Drp1 Mediates Angiotensin II-induced Cardiovascular Hypertrophy via global as well as selective de novo protein synthesis**
Tatsuo Kawai, Hannah A Cooper, TEMPLE UNIV SCHOOL OF MEDICINE, Philadelphia, PA; Steven J Forrester, Emory Univ, Atlanta, GA; Michael J Boyer, Kathy J Elliott, Kyle Preston, TEMPLE UNIV SCHOOL OF MEDICINE, Philadelphia, PA; Yayoi Kimura, Yokohama City Univ, Yokohama, Japan; Hiromi Sesaki, Johns Hopkins Univ Sch of Med, Baltimore, MD; Rosario Scalia, Victor Rizzo, Satoru Eguchi, TEMPLE UNIV SCHOOL OF MEDICINE, Philadelphia, PA
- P244 Hypoxic Stimulation of Vasoreparative Functions in Human CD34+ cells is Mediated by Angiotensin Converting Enzyme-2 and Mas Receptor**
Shrinidh Joshi, Estelle Leclerc, Yagna P Jarajapu, NDSU, Fargo, ND
- P245 The Angiotensin-(1-7) Agonist AVE0991 Attenuates Angiotensinogen Release from Human Proximal Epithelial Cells**
Mark C Chappell, WAKE FOREST SCHOOL OF MEDICINE, Winston-Salem, NC
- P246 Increased Urinary Prorenin and sPRR Excretion in Early Type 1 diabetes**
Nirupama Ramkumar, Deborah Stuart, Donald E Kohan, UNIVERSITY OF UTAH, Salt Lake Cty, UT
- P247 ACE2/ACE Imbalance in the Placental Circulation in an Ovine Model of Intrauterine Growth Restriction**
Shrinidh Joshi, Caleb O Lemley, Kimberly A Vonnahme, Yagna P Jarajapu, NDSU, Fargo, ND
- P248 Overexpression of An Intracellular Angiotensin II Fusion Protein Selectively in The Mitochondria of Mouse Proximal Tubule Cells Induces Mitochondrial Stress and Glycolytic Responses: Roles of Nitric Oxide and Superoxide**
Xiao C Li, UNIV MISSISSIPPI MEDICAL CTR, Jackson, MS; Julia L Cook, Ochsner Clinic Fndn, New Orleans, LA; Jia L Zhuo, UNIV MISSISSIPPI MEDICAL CTR, Jackson, MS
- P249 (Pro)renin Receptor Promotes Colorectal Cancer through the Wnt/Beta-Catenin Signaling Pathway despite Constitutive Pathway Component Mutations**
Akira Nishiyama, Yuki Shibayama, Juan Wang, KAGAWA UNIV MED SCHOOL, Kagawa, Japan
- P250 Unveiling Binding Pocket Structure Of Mas Receptor And Its Interaction With Angiotensin-(1-7)**
Maia E. Bragina, EPFL STI IBI-STI LHTC, Lausanne, Switzerland; Nuria Cirauqui, EPFL SV IBI UPDALPE, Lausanne, Switzerland; Matteo Dal Peraro, EPFL SV IBI1 UPDALPE, Lausanne, Switzerland; Robson A. S. Santos, Dept de Fisiologia e Biofísica, Insto de Ciências Biológicas, Univ Federal de Minas Gerais,, Belo Horizonte, Brazil; Rodrigo A. Fraga-Silva, Nikos Stergiopoulos, EPFL STI IBI-STI LHTC, Lausanne, Switzerland

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- P251 Angiotensin Based Biomarkers for Molecular Profiling and Drug Efficacy Monitoring in Hypertension**
Marko Poglitsch, Attoquant Diagnostics, Vienna, Austria; Ashraf H Ahmed, Endocrine Hypertension Ctr, Univ of Queensland, Sch of Med, Princess Alexandra Hosp, Brisbane, Australia; Andrea Stoller, Univ Hosp Basel, Clinical Pharmacology and Toxicology, Basel, Switzerland; Oliver Domenig, Attoquant Diagnostics, Vienna, Austria; Manuel Haschke, Univ Hosp Basel, Clinical Pharmacology and Toxicology, Basel, Switzerland; Michael Stowasser, Endocrine Hypertension Ctr, Univ of Queensland, Sch of Med, Princess Alexandra Hosp, Brisbane, Australia
- P252 Angiotensin II Type 1 Receptor Autoantibody Inhibited BK Channels In Vascular Smooth Muscle Cells**
Xiaochen Yin, Suli Zhang, Meili Wang, Yue Qu, Huirong Liu, Capital Medical Univ, Beijing, China
- P253 Forty-two Year Followup in a Patient with Conn's Syndrome**
Clarence Ezra Grim, High Blood Pressure Consulting, Stateline, NV
- P254 Synergistic Effect of Angiotensin II and Amyloid-beta on Brain Vascular Smooth Muscle Cell Senescence**
Li-Juan Min, Hui-Yu Bai, Bao-shuai Shan, Harumi Kan-no, Akinori Higaki, Masaki Mogi, Jun Iwanami, Masatsugu Horiuchi, EHIME UNIVERSITY SCHOOL OF MEDICINE, Tohon, Ehime, Japan
- P255 Differential Regulation of Blood Pressure and Renal Injury by HDAC Inhibitor Mocetinostat in Npr1 Gene-targeted Male and Female Mutant Mice**
Perna Kumar, Meaghan Bloodworth, Christian Nguyen, Venkateswara R. Gogulamudi, Kailash N. Pandey, Physiology, Tulane Univ Health Sciences Ctr and Sch of Med, New Orleans, LA
- P256 Development of an Automated High Throughput Screen for GRK4 as Potential Novel Therapeutics for Treatment of Hypertension and/or Salt Sensitivity**
Michael G Daley, John J Gildea, Peng Xu, Katie A Schiermeyer, Wei Yue, Stephen G Marshall, Pedro A Jose, Robin A Felder, Univ of Virginia, Charlottesville, VA
- P257 Angiotensin II Type 1 Receptor Autoantibodies Decrease Angiotensin II Type 1 Receptor Internalization Through Attenuating The Recruitment Of β -arrestin1/2**
Jingwei Bian, Suli Zhang, Jinghui Lei, Xiaochen Yin, Pengli Wang, Huirong Liu, Capital Medical Univ, Beijing, China
- P258 What Clinic Blood Pressure Best Protects Renal Function In Children With Chronic Kidney Disease?**
Joseph T Flynn, SEATTLE CHILDRENS HOSPITAL, Seattle, WA; Megan Carroll, Derek Ng, Johns Hopkins Sch of Public Health, Baltimore, MD; Brad Warady, Children's Mercy Hosp, Kansas City, MO; Susan Furth, Children's Hosp of Philadelphia, Philadelphia, PA
- P259 Significance Of Hyperuricaemia Treatment In The Treatment Of Hypertensive Patients - Comparison Of Renal Protective Effects Between Topiroxostat And Febuxostat, New Xanthine Oxidase Inhibitors**
Fumitoshi Satoh, Yuta Tezuka, Kei Omata, Div of Clinical Hypertension, Endocrinology and Metabolism, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Yoshikiyo Ono, Ryo Morimoto, Masatka Kudo, Sadayoshi Ito, Tohoku Univ Hosp, Sendai, Japan
- P260 Utilizing Real-World Big Data in the Search for New Renoprotective Drugs**
Yuya Horinouchi, Yasumasa Ikeda, Keijo Fukushima, Masaki Imanishi, Hirofumi Hamano, Yuki Izawa-Ishizawa, Yoshito Zamami, Hiromichi Fujino, Keisuke Ishizawa, Koichiro Tsuchiya, Toshiaki Tamaki, Inst of Biomedical Sciences, Tokushima Univ Graduate Sch, Tokushima, Japan
- P261 GPER is Required for Age-dependent Albuminuria and Glomerulosclerosis: Evidence for its Role in Podocyte Injury and Mesangial Nox1 Regulation**
Matthias R Meyer, Univ of New Mexico, Albuquerque, NM; Christoph Daniel, Friedrich-Alexander-Univ of Erlangen-Nürnberg, Erlangen, Germany; Christine D. Woods, Geetanjali Sharma, Natalie C. Fredette, Univ of New Mexico, Albuquerque, NM; Kerstin Amann, Friedrich-Alexander-Univ of Erlangen-Nürnberg, Erlangen, Germany; Matthias Barton, Univ of Zurich, Zurich, Switzerland; Eric R Prossnitz, Univ of New Mexico, Albuquerque, NM
- P262 Repression of Genes Involved in Fatty Acid Metabolism during Acute Renal Failure**
Mohd Shahid, Lina Kishta, Dana Mdanat, Chicago State Univ, Chicago, IL; Zivar Yousefipour, Coll of Pharmacy and Health Sciences, Texas Southern Univ, Houston, TX; Mohammed Newaz, Chicago State Univ, Chicago, IL
- P263 Renal Proximal Tubule Cells from Inverse Salt Sensitive Individuals Have Lower Basal But Higher Sodium Stimulated ENaC Compared To Salt Resistant Individuals**
Peng Xu, John J. Gildea, Wei Yue, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Pedro A Jose, George Washington Univ, Washington, DC; Robin A Felder, UNIVERSITY OF VIRGINIA, Charlottesville, VA
- P264 Ghrelin-Induced Sodium Reabsorption is Mediated by PKA and a Microtubulin-Dependent Network In Rats**
Brandon A. Kemp, Nancy L. Howell, Shetal H. Padia, Univ of Virginia, Charlottesville, VA

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- P265 Early Renal Hyperfiltration In Obese Dahl Salt-sensitive Leptin Receptor Mutant Rats Is Associated With Glomerular Leukocyte Extravasation And Renal Disease**
Jan M Williams, Kasi C McPherson, Corbin A Shields, Bibek Poudel, Denise C Cornelius, Michael R Garrett, UNIVERSITY OF MISSISSIPPI MEDICAL CENTER, Jackson, MS
- P266 Western Diet Impairs Small Vessel Relaxation And Initiates Kidney Endothelial Stiffening, Fibrosis And Tubulointerstitial Fibrosis Through The Endothelial Mineralocorticoidreceptor**
Annayya Aroor, Javad Habibi, Francisco I Ramirez-Perez, Luis Martinez-Lemus, Iris Z Jaffe, James R Sowers, Guanghong Jia, Adam Whaley-Connell, UNIVERSITY MISSOURI, Columbia, MO
- P267 Aging & Endothelial Cell Senescence: Does Prolylcarboxypeptidase Predict Endothelial Dysfunction?**
Zia Shariat-Madar, Nicholas Boullard, Cody Cissom, UNIVERSITY OF MISSISSIPPI, University, MS
- P268 Extracellular Vesicles From Wistar Kyoto And Spontaneously Hypertensive Rats Have Differential Vasodilatory Effects On Resistance Arteries**
Uta Erdbruegger, Miranda Good, Luca Musante, Sabrina LaSalvia, Nancy Howell, Robert M Carey, Brant Isakson, Thu H Le, UNIVERSITY OF VIRGINIA HEALTH SYSTEM, Charlottesville, VA
- P269 Chronic Cerebral Ischemic Injury Worsens Vascular Dysfunction**
Jun Iwanami, Masaki Mogi, Kana Tsukuda, Akinori Higaki, Moe Kawakami, Masanori Kukida, Hiroto Nakaoka, Toshifumi Yamauchi, Hui-Yu Bai, Bao-Shuai Shan, Li-Juan Min, Masatsugu Horiuchi, Ehime Univ, Graduate Sch of Med, Tohon Ehime, Japan
- P270 Increase Of Total Peripheral Vascular Resistance And Arterial Stiffness In Non-diabetic Hypertensive Patients With Overweight, Compared With Hypertensive Patients Of The Same Age With Normal Body Mass Index**
RICARDO CABRERA-SOLE, CARIDAD TURPIN LUCAS, SANTIAGO GARCIA RUIZ, LILIANA URREGO RIVERA, ERIK STEPHAN LUEKPE, MANUEL AGUILERA SALDAÑA, UNIVERSITY GENERAL HOSPITAL, ALBACETE, Spain
- P271 Relationship Of Resting Heart Rate And Subclinical Arteriosclerosis Markers In Apparently Normal Participants From China**
xiuqin wu, yongqiang hong, Mindong Hosp Affiliated to Fujian Medical Univ, Fujian, China; Huan Liu, Hongyu Wang, Hongwei Zhao, Peking Univ Shougang Hosp, Beijing, China
- P272 Gender Features of Angiological Screening in Young People**
Maria Evseyeva, Stavropol State Medical Univ, Stavropol, Russian Federation; Mikhail Eremin, Stavropol Regional Clinical Hosp, Stavropol, Russian Federation; Anjelika Rusidi, Elena Fursova, Vladimir Koshel, Vladimir Baturin, Stavropol State Medical Univ, Stavropol, Russian Federation
- P273 Association Between Arterial Stiffness And Vascular Related Diseases- Arterial stiffness increases in participants exposing in combined vascular related diseases: The Best Study**
Hongyu Wang, Huan Liu, Jinbo Liu, Hongwei Zhao, Peking Univ Shougang Hosp, Beijing, China
- P274 Endothelial Dysfunction of Conduit Arteries in Amyloid Precursor Protein-Deficient Mice**
Livius V. d'Uscio, Zvonimir S. Katusic, MAYO CLINIC, Rochester, MN
- P275 Transglutaminase-2 Contributes to Angiotensin II-induced Reactive Oxygen Species Production in mice**
Sara Ucci, Sergio Chiandotto, Cecilia Verga Falzacappa, Allegra Battistoni, Massimo Volpe, Carmine Savoia, SAPIENZA UNIVERSITY ROME, Rome, Italy
- P276 Hydrogen Sulfide Regulates Local Blood Flow In Conscious, Free-Moving Rats**
Juan H Loreda, Adelaeda Barrera, Joshua Garcia, Jay Naik, Nancy L Kanagy, UNIVERSITY NEW MEXICO, Albuquerque, NM
- P277 Ceramide Modulates GPCR And TK Receptor Signaling To Impact Endothelial Functions And Blood Pressure**
Anna Cantalupo, Antonella Gargiulo, Linda Sasset, Luisa Rubinelli, Ilaria Del Gaudio, WEILL CORNELL MEDICAL COLLEGE, New York, NY; Maria Rosaria Bucci, Univ of Naples "Federico II", Naples, Italy; Annarita Di Lorenzo, WEILL CORNELL MEDICAL COLLEGE, New York, NY
- P278 Flow-Induced NO Deficiency in Thick Ascending Limbs of Dahl Salt-Sensitive Rats Fed a High Salt Diet is Due to Decreased NOS3 Expression**
Fara Saez, Agustin Gonzalez-Vicente, Nancy J Hong, Jeffrey L Garvin, CASE WESTERN RESERVE UNIVERSITY, Cleveland, OH
- P279 Regulation Of H2S Production By Cystathionine Gamma-lyase In Endothelial Cells**
Perenkita J Mendiola, Laura V Gonzalez Bosc, Jay Naik, Nancy L Kanagy, Univ of New Mexico, Albuquerque, NM
- P280 Type V Collagen is a Lung-associated Self-antigen Uncovered by Chronic Hypoxia**
Laura V Gonzalez Bosc, Juan Humberto Morales-Loreda, Levi Maston, Tamara Howard, UNIVERSITY OF NEW MEXICO, Albuquerque, NM; Ewa Jankowska-Gan, Univ of Wisconsin Sch of Med and Public Health, Madison, WI; Matthew P Arvedson, Jeremy A Sullivan, William J Burlingham, Univ of Wisconsin Sch of Med and Public Health, MADISON, WI

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- P281 Artificial Dendritic Cells Identify a Major Histocompatibility Complex Class 1 Subset that Activates T Cells in Hypertension**
Wei Chen, David M. Patrick, Natalia R. Barbaro, VANDERBILT, Nashville, TN; Kenneth E. Bernstein, Cedars Sinai, Los Angeles, CA; Kenneth E. Bernstein, Cedars Sinai, Los Angeles, CA; Daniel Roeth, Markus Kalkum, City of Hope, Duarte, CA; Liang Xiao, Annet Kirabo, David G. Harrison, VANDERBILT, Nashville, TN
- P282 Knockout of Transient Receptor Potential Ankyrin 1 Exacerbates Renal Ischemia-Reperfusion Injury**
Shuangtao Ma, Donna H. Wang, Michigan State Univ, East Lansing, MI
- P283 Gamma Delta T Cells Drive CD4+ And CD8+ T Cell Activation In Hypertension**
Pierre Paradis, Antoine Caillon, Lady Davis Institute for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Ernesto L. Schiffrin, Lady Davis Institute for Medical Res, Dept of Med, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada
- P284 Increased Blood Pressure in Interleukin-6 Infused Mice is Secondary to Reduced Urinary Sodium Excretion and Not Vascular Dysfunction**
Gillian G Hecht, Emory Univ Sch of Med, Atlanta, GA; Cam G McCarthy, Camilla F Wenceslau, Medical Coll of Georgia at Augusta Univ, Augusta, GA; Hayley C Moyer, Ashwini Krishnamurthy, Emory Univ Sch of Med, Atlanta, GA; R. Clinton Webb, Medical Coll of Georgia at Augusta Univ, Augusta, GA; Robert S. Hoover, Brandi M Wynne, Emory Univ Sch of Med, Atlanta, GA
- P285 Carotid Sinus Nerve Stimulation Attenuates Alveolar Bone Loss In Rats With Induced Periodontitis**
Aline B Ribeiro, Patricia G Fernandes, Fernanda Brognara, Jaci A Castania, Carlos A Silva, Michel R Messoria, Helio C Salgado, UNIVERSITY OF SAO PAULO, Ribeirao Preto, Brazil
- P286 (Pro)renin Receptor Mediates Inflammation Induced by Renal Injury**
Silas Allen Culver, Rebecca McDevitt, Safia Akhtar, Caixia Li, Helmy Siragy, Univ of Virginia, Charlottesville, VA
- P287 Time Course of Hemodynamic Responses to Different Doses of Lipopolysaccharide Administration in Unanesthetized Rats**
Fernanda Brognara, Jaci A Castania, Univ of São Paulo, Ribeirão Preto, Brazil; Daniel P Dias, Barão de Mauá Univ Ctr, Ribeirão Preto, Brazil; Alexandre Kanashiro, Helio C Salgado, Univ of São Paulo, Ribeirão Preto, Brazil
- P288 Bortezomib Reduces Blood Pressure and Proteinuria in the Dahl Salt Sensitive (S) Rat**
Kenji J Maeda, Erin B Taylor, Courtney A Ross, Michael J Ryan, Michael R Garrett, Jennifer M Sasser, Univ of Mississippi Medical Ctr, Jackson, MS
- P289 Effect of Abatacept on Blood Pressure in Essential Hypertensive Subjects with Rheumatological Disorders**
Cheryl L Laffer, Megan M Shuey, Jonathan D Mosley, Meenakshi S Madhur, David G Harrison, Fernando Elijovich, Vanderbilt Univ Sch Medicin, Nashville, TN
- P290 Central Angiotensin II and Interleukin-1 α Upregulate Brain Tumor Necrosis Factor- α Converting Enzyme in the Rat**
Yiling Cao, Yang Yu, Balyssa B. Bell, Univ of Iowa Carver Coll of Med, Iowa City, IA; Robert B. Felder, Univ of Iowa Carver Coll of Med & VA Medical Ctr, Iowa City, IA; Shun-Guang Wei, Univ of Iowa Carver Coll of Med, Iowa City, IA
- P291 DNA de novo (de)Methylation in the Kidney Contributes to Salt-Induced Hypertension**
Pengyuan Liu, Sir Run Run Shaw Hosp and Inst of Translational Med, Zhejiang Univ, Hangzhou, Zhejiang, China; Yong Liu, Xiaoqing Pan, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI; Yingchuan Li, Intensive Care Unit, Shanghai Jiaotong Univ Affiliated Sixth Hosp, Shanghai, China; Kristie Usa, Mingyu Liang, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI
- P292 Gene Editing Rat Resource Center: Rat models for heart, lung, blood, and sleep disorder studies**
Aron M Geurts, Rebecca Schilling, Michael Grzybowski, Anne Temple, Allison Zappa, Lynn Lazcares, Jessica Niebuhr, Shawn Kalloway, Jamie Foeckler, Akiko Takizawa, Melinda R. Dwinell, Medical Coll of Wisconsin, Milwaukee, WI
- P293 Chronic Pressure Overload Impacts Cardiac Endothelial Cell And Macrophage Gene Expression**
Achim Lothar, HEART CENTER FREIBURG UNIVERSITY, Freiburg, Germany; Lisa Deng, Inst of exp. and clin. Pharmacology and Toxicology, Univ of Freiburg, Freiburg, Germany; Ingo Hilgendorf, Theresa Kehl, Christoph Bode, HEART CENTER FREIBURG UNIVERSITY, Freiburg, Germany; Lutz Hein, Inst of exp. and clin. Pharmacology and Toxicology, Univ of Freiburg, Freiburg, Germany
- P294 Intergenerational Obesity: Impact On Cardiac Function And Reserve In Mice Fed A High Fat Diet**
Fabio N. Gava, John E. Hall, Alexandre A. da Silva, Jussara M do Carmo, UMMC, Jackson, MS
- P295 Ambulatory Blood Pressure And Heart Rate Variability In Dietary Sodium And Weight Intervention**
John S LEE, Princeton Univ; Univ of Minnesota Sch of Med, Minneapolis, MN; Mary S. Lee, Northwestern Univ Feinberg Sch of Med; Univ of Minnesota Sch of Med, Minneapolis, MN; Jong Y. Lee, Richard Gillum, Franz Halberg, Univ of Minnesota Sch of Med, Minneapolis, MN
- P296 High Salt (NaCl) induces Metabolic Modifications and affects Classic and Alternative Macrophage Activation**
Sabrina Yasmin Geisberger, ECRC & Max Delbruck Ctr for Molecular Med & DZHK, Berlin, Germany; Christin Zasada, Max Delbruck Ctr for Molecular

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- Med & BIMSB, Berlin, Germany; Jonathan Jantsch, Inst of Clinical Microbiology and Hygiene, Univ Hosp of Regensburg, Regensburg, Germany; Ralf Dechend, ECRC & Charite Univsmedizin & DZHK & BIH & Helios Hosp, Berlin, Germany; Stefan Kempa, Max Delbruck Ctr for Molecular Med & BIH & BIMSB, Berlin, Germany; Dominik N. Mueller, ECRC & Max Delbruck Ctr for Molecular Med & Charite Univsmedizin & DZHK & BIH, Berlin, Germany
- P297 Hypertensive Crisis In An Inner-city Population: A Retrospective Case Control Study**
Frederick Waldron, Newark Beth Israel Medical Ctr, Newark, NJ; Irina Benenson, Rutgers Univ, Newark, NJ
- P298 Combination of Systolic Blood Pressure and Non-HDL Cholesterol Categories Increased the Risk of Incident Latent Heart Failure: The Suita Study**
Yoshihiro KOKUBO, Makoto WATANABE, Aya HIGASHIYAMA, Yoshihiro MIYAMOTO, NATL CEREBRAL AND CARDIOVASC CTR, Suita, Osaka, Japan
- P299 Evaluation of the Knowledge of Risk Factors Related to Diabetes Mellitus in a Cross High-Risk Population Sample**
Maria Clara Duarte Dal Pai, Odara da Costa, Laura Martins Peçanha, Beatriz Glielmo Saraiva, UNESA, Rio de Janeiro, Brazil; Bernardo Pires de Freitas, FTESM, Rio de Janeiro, Brazil; Andressa Regina da Fonseca Wolff, UNESA, Rio de Janeiro, Brazil; Caroline Campos Garcia, FTESM, Rio de Janeiro, Brazil; Renan Alves Garcia, Nicole Ceccon de Castro, Fernando Ribas Brustolin, UNESA, Rio de Janeiro, Brazil; Bruno Vasconcelos Coimbra, FTESM, Rio de Janeiro, Brazil; Lilian Soares da Costa, FTESM and UNESA, Rio de Janeiro, Brazil
- P300 Countries' Geographic Latitude And Their Populations' Cholesterol And Blood Pressure**
Yuhao Liu, Univ of Michigan, Ann Arbor, MI; Robert D. Brook, Univ of Michigan Medical Sch, Ann Arbor, MI; Xuefeng Liu, Univ of Michigan Sch of Nursing, Ann Arbor, MI; James Brian Byrd, Univ of Michigan Medical Sch, Ann Arbor, MI
- P301 Heart Rate Variability is Associated with Future Global Cognitive Performance: the Multi-Ethnic Study of Atherosclerosis**
Chris Schaich, Diego Malaver, Hossam A. Shaltout, Wake Forest Univ Sch Med, Winston-Salem, NC; Adina Zeki Al Hazzouri, Miller Sch of Med, Univ of Miami, Miami, FL; David M. Herrington, Timothy M. Hughes, Wake Forest Univ Sch Med, Winston-Salem, NC
- P302 Prevalence of refractory hypertension in the United States from 1999-2014**
Michael Buhnerkempe, Albert Botchway, Dept of Internal Med, Ctr for Clinical Res, Southern Illinois Univ Sch of Med, Springfield, IL; Carlos E. Nolasco Morales, Vivek Prakash, John M. Flack, Dept of Internal Med, Div of General Internal Med, Hypertension Section, Southern Illinois Univ Sch of Med, Springfield, IL
- P303 Inhibition of Group IV Cytosolic Phospholipase A2 α by Cytochrome P450 1B1-Estradiol Derived Metabolite 2-Methoxyestradiol Protects Against Angiotensin II-Induced Hypertension in Female Mice**
Chi Young Song, Purnima Singh, Mustafa Motiwala, Ji Soo Shin, Univ of Tennessee HSC, Memphis, TN; Joseph V. Bonventre, Harvard Medical Sch, Boston, MA; Kafait U. Malik, Univ of Tennessee HSC, Memphis, TN
- P304 Sex differences in mechanisms of adiposity-associated hypertension in Dahl S rats**
Gregory D Fink, Hannah Garver, MICHIGAN STATE UNIVERSITY, East Lansing, MI
- P305 High Fat Diet With Normal Salt Feeding Does Not Change Renal m-TORC Signaling Activities In Male And Female Dahl Salt Sensitive Rats**
Fernandes Roxanne, James J Galligan, Gregory D Fink, Hui Xu, MICHIGAN STATE UNIVERSITY, East Lansing, MI
- P306 Preterm Birth is Associated with Increased Blood Pressure and Increased Urinary Angiotensinogen in Young Adults**
Andrew Michael South, Patricia A. Nixon, Mark C. Chappell, Debra I. Diz, Elizabeth T. Jensen, Hossam A. Shaltout, Lisa K. Washburn, WAKE FOREST SCHOOL OF MEDICINE, Winston Salem, NC
- P307 Renal Natural Killer Cell Activation and Mitochondrial Oxidative Stress; New Mechanisms in AT1-AA mediated Hypertensive Pregnancy**
Mark W Cunningham, Venkata Vaka, Kristen McMaster, Tarek Ibrahim, Denise Cornelius, Lorena Amaral, Nathan Campbell, UNIV OF MISSISSIPPI MEDICAL CENTER, Jackson, MS; Gerd Wallukat, Experimental and Clinical Res Ctr, Charité Campus Buch, Max-Delbrück Ctr for Molecular Med, Berlin, Germany; Shyanne McDuffy, Nathan Usry, UNIV OF MISSISSIPPI MEDICAL CENTER, Jackson, MS; Ralph Dechend, Experimental and Clinical Res Ctr, Charité Campus Buch, Max-Delbrück Ctr for Molecular Med, Berlin, Germany; Babbette LaMarca, UNIV OF MISSISSIPPI MEDICAL CENTER, Jackson, MS
- P308 Differential VEGF-Dependent Induction of sFlt-1 from Vascular Endothelial and Placental Cells**
Heather Chapman, Adrian C Eddy, Gene L Bidwell III, Eric M George, UNIV MISSISSIPPI MEDICAL CENTER, Jackson, MS
- P309 Aberrant Corin and PCSK6 in the Placenta of Hyperinsulinemic Dams**
Zaid Abassi, Safa Kinaneh, Rappoport Faculty of Med, Technion, Haifa, Israel; Galina Skarzinski, HADASSAH UNIV HOSP CTR MT SCOPUS, Jerusalem, Israel; Einat Cinnamon, HADASSAH UNIV HOSP CTR Ein-Kerem, Jerusalem, Israel; Yoav Smith, Hebrew Univ-Hadassah Sch of Med, Jerusalem, Israel; Ilana Ariel, Michael Bursztyn, HADASSAH UNIV HOSP CTR MT SCOPUS, Jerusalem, Israel

Poster Presentations (continued)

- P310** **Hypermethylation Of Dlk1-meg3 Loci In Human Umbilical Veins: Insights Into Offspring Vasculardysfunction Born After Pre-eclampsia**
Ying Jiang, women's hospital, school of medicine, zhejiang university, Hangzhou, China; Yi-Chen Yu, Dept of General Surgery, Sir Run Run Shaw Hospital, Sch of Med, Zhejiang Univ, Hangzhou, China; Qiong Luo, Women's hospital, Sch of Med, Zhejiang Univ, Hangzhou, China
- P311** **Static Urine Osmolality with Elevated First Trimester Urine Copeptin in Human Preeclampsia**
Donna A Santillan, Sabrina M Scroggins, Alyssa T Ray, Shao Y Zhang, Curt D Sigmund, Gary L Pierce, Justin L Grobe, Mark K Santillan, UNIVERSITY IOWA CARVER COLL MED, Iowa City, IA
- P312** **The Impact Of Arterial Hypertension In Maternal And Perinatal Outcomes In Pregnancies With Takayasu Arteritis**
Luiz Bortolotto, Heart Inst (InCor), São Paulo, Brazil; Maria R Bortolotto, Rodrigo R Codarin, Tiago J Gomes, Carolina B Testa, Rossana P Francisco, Marcelo Zugaib, Departament of Obstetrics, Hosp das Clinicas da FMUSP, São Paulo, Brazil
- P313** **Isolated Central Hypertension And Features Of The Pregnancy Course Isolated Central Hypertension And Features Of The Pregnancy Course**
Maria Evseyeva, Sergeeva Oksana, Evgeniy Shchetinin, Victoria Frantseva, Tatiana Bondar, Stavropol State Medical Univ, Stavropol, Russian Federation
- P314** **Regulatory Dendritic Cell Treatment Prevents the Development of Vasopressin-Induced Preeclampsia**
Sabrina M Scroggins, Donna A Santillan, Jeremy A Sandgren, Gary L Pierce, Curt D Sigmund, Justin L Grobe, Mark K Santillan, Univ of Iowa, Iowa City, IA
- P315** **Progesterone Supplementation Abolishes Sftt-1 Induced Hypertension In Pregnant Rats**
Lorena M Amaral, Mark W. Cunningham Jr., Venkata Ramana Vaka, Tarek Ibrahim, Babbette LaMarca, Medical Ctr- UMMC, Jackson, MS
- P316** **Effects of Paternal Contribution of a Null Allele of Regulator of G Protein Signaling-2 (Rgs2) upon the Placental Transcriptome of C57BL/6J Mice**
Katherine J Perschbacher, Guorui Deng, John W Walsh, Donna A Santillan, Eric J Devor, Gary L Pierce, Curt D Sigmund, Rory A Fisher, Katherine N Gibson-Corley, Mark K Santillan, Justin L Grobe, UNIVERSITY OF IOWA, Iowa City, IA
- P317** **Nocturnal Blood Pressure Variability is associated with hs-CRP in Hypertensive Patients**
Badhma Valaiyapathi, Mohammed Siddiqui, Maria El Hachem, Eric Judd, Tanja Dudenbostel, Suzanne Oparil, David A Calhoun, Univ of Alabama at Birmingham, Birmingham, AL
- P318** **Cardiac and Vascular Changes in Patients with Morbid Obesity at 12 Months After Bariatric Surgery**
Anna Oliveras, Ana M Granados, Lluís Molina, Albert Goday, Susana Vazquez, Laia Sans, Maria Vera, Berta Xargay, Julio Pascual, Hosp del Mar, Barcelona, Spain
- P319** **Effects On Cardiac Output, Arterial Stiffness And Blood Pressure Of Sacubrytil + Valsartan In Hypertensive Patients With Heart Failure Whose Previously Received Ace Inhibitors Or Arb + Diuretics. Prospective Study And Follow-up To 24 Weeks**
RICARDO CABRERA-SOLE, CARIDAD TURPIN LUCAS, LILIANA URREGO RIVERA, ANA NUÑEZ GALDAMEZ, SANTIAGO GARCIA RUIZ, ERIK STEPHAN LUEKPE, MANUEL AGUILERA SALDAÑA, UNIVERSITY GENERAL HOSPITAL, ALBACETE, Spain
- P320** **Influence of Diabetes Mellitus on the Prevalence of Atrial Fibrillation in Patients with Diastolic Dysfunction in a Large Community Practice in Greenville, South Carolina**
Naveen Raj Saxena, Vinita Srivastava, Peace Medical Ctr, Greenville, SC; Juhi Saxena, Anju Saxena, Furman Univ, Greenville, SC
- P321** **Substance P is Associated with Hypertension-induced Cardiac Fibrosis**
Alexander Widiapradja, Christine Yu, Katharine Kott, Gemma A Figtree, Scott P Levick, Kolling Inst of Medical Res, St Leonards, Australia
- P322** **Different Responses To Intrarenomedullary Infusion of Anandamidevs. PF-3845 Reveal Additional Mechanisms Of Pressure-lowering And Diuresis-stimulation By Renomedullary FAAH Inhibition**
Ashfaq Ahmad, Sara K Dempsey, Zdravka Daneva, Ningjun Li, Pin-Lan Li, Joseph K Ritter, Virginia Commonwealth Univ, Richmond, VA
- P323** **TMEM16A and TMEM16B Contribute to Mice Cholecystokinin Response in Sex-specific Manner**
Runping Wang, Michael Z Cicha, Mark W Chapleau, Francois M Abboud, THE UNIVERSITY OF IOWA, Iowa City, IA
- P324** **Role of GABAergic Signaling in AgRP Neurons in the Dipsogenic and Metabolic Responses to Brain Angiotensin**
Lisa L Morselli, Guorui Deng, Nicole A Pearson, Justin L Grobe, UNIVERSITY OF IOWA, Iowa City, IA
- P325** **High-fat Feeding does not Alter the Sparse Sympathetic Nerve Density in Mesenteric Resistance Artery Perivascular Adipose Tissue in Male Sprague-Dawley Rats**
William F. Jackson, Gregory D. Fink, Stephanie W. Watts, MICHIGAN STATE UNIV, East Lansing, MI
- P326** **Enhancement Of Endogenous Epoxyeicoastrienoic Acids Production Ameliorates Heart Function Via Increased Pgc1 mitochondrial Functions In Metabolic Syndrome**
Jian A Cao, Chinese PLA General Hosp, Beijing, China
- P327** **Real-Time Analysis of Blood Glucose Dynamics by a Glucose Telemetry System in Canagliflozin-treated Diabetic Mice**
Ryousuke Satou, T Cooper Woods, Kayoko Miyata, Akemi Katsurada, Courtney M Dugas, Natasha C Klingenberg, L. Gabriel Navar, Dept of Physiology and Hypertension and Renal Ctr of Excellence, Tulane Univ Sch of Med, New Orleans, LA

Poster Presentations (continued)

- P328 Effect of Sitagliptin on the Hemodynamic and Metabolic Response to a Mixed Meal in Individuals with Type 2 Diabetes and Hypertension**
Jessica R Wilson, Univ of Pennsylvania, Philadelphia, PA; Scott J Kerman, Hui Nian, Scott Hubers, Nancy J Brown, Vanderbilt Univ, Nashville, TN
- P329 Ankle Brachial Index Profile in a Diabetic Population with High Risk of Cardiovascular Disease**
Bernardo Pires de Freitas, FTESM, Rio de Janeiro, Brazil; Beatriz Glielmo Saraiva, Laura Martins Peçanha, Andressa Regina da Fonseca Wolff, UNESA, Rio de Janeiro, Brazil; Bruno Vasconcelos Coimbra, FTESM, Rio de Janeiro, Brazil; Fernando Ribas Brustolin, Nicole Ceccon de Castro, Odara da Costa, Renan Alves Garcia, Maria Clara Dal Pai, UNESA, Rio de Janeiro, Brazil; Caroline Campos Garcia, FTESM, Rio de Janeiro, Brazil; Lilian Soares da Costa, FTESM and UNESA, Rio de Janeiro, Brazil
- P330 Alterations in Maternal Heart during Diabetic Rat Pregnancy**
Till Schuette, Charité – Univmedizin Berlin, Berlin Inst of Health, German Ctr for Cardiovascular Res, Berlin, Germany; Michaela Golic, Experimental and Clinical Res Ctr, Max Delbrück Ctr for Molecular Med, Charité – Univmedizin Berlin, Berlin Inst of Health, Berlin, Germany; Kristin Kraeker, Nadine Haase, Experimental and Clinical Res Ctr, Max Delbrück Ctr for Molecular Med, Charité – Univmedizin Berlin, Berlin Inst of Health, German Ctr for Cardiovascular Res, Berlin, Germany; Florian Herse, Experimental and Clinical Res Ctr, Max Delbrück Ctr for Molecular Med, Charité – Univmedizin Berlin, Berlin Inst of Health, Berlin, Germany; Natalia Alenina, Max Delbrück Ctr for Molecular Med, Berlin Inst of Health, German Ctr for Cardiovascular Res, Berlin, Germany; Dominik N Mueller, Experimental and Clinical Res Ctr, Max Delbrück Ctr for Molecular Med, Charité – Univmedizin Berlin, Berlin Inst of Health, German Ctr for Cardiovascular Res, Berlin, Germany; Michael Bader, Max Delbrück Ctr for Molecular Med, Charité – Univmedizin Berlin, Berlin Inst of Health, German Ctr for Cardiovascular Res, Berlin, Germany; Michael Schupp, Charité – Univmedizin Berlin, Berlin Inst of Health, Berlin, Germany; Ralf Dechend, Experimental and Clinical Res Ctr, Charité – Univmedizin Berlin, Berlin Inst of Health, German Ctr for Cardiovascular Res, Helios Clinic, Berlin, Germany
- P331 Transition From Pre-Diabetes To Diabetes Is Associated With Worsening Of Cardiac Autonomic Neuropathy: Reversal By Anti-Diabetic Drugs**
Nour Bakkar, Nahed Mougharbil, Souha Fares, Fouad A Zouein, Ahmed F El-Yazbi, AUBMC, Beirut, Lebanon
- P332 Hesperidin In Citrus Fruit Juice Plays A Role In Preventing Cognitive Impairment Induced By Ischemic Brain Damage**
Moe Kawakami, Jun Iwanami, Kana Tsukuda, Akinori Higaki, Li-Juan Min, Masaki Mogi, Masatsugu Horiuchi, Ehime Univ, Graduate Sch of Med, Tohon, Ehime, Japan
- P333 Effect of Autonomous Cortisol Secretion on Cerebrovasculular Events in Patients with Primary Aldosteronism**
Masataka Kudo, Tohoku Univ Hosp, Div of Nephrology, Endocrinology and Vascular Med, Sendai, Japan; Shunji Mugikura, Tohoku Univ Hosp, Dept of Diagnostic Radiology, Sendai, Japan; Ryo Morimoto, Tohoku Univ Hosp, Div of Nephrology, Endocrinology and Vascular Med, Sendai, Japan; Yuta Tezuka, Kei Omata, Beata Shiratori, Yasuhiro Igarashi, Tohoku Univ Hosp, Div of Nephrology, Endocrinology and Vascular Med, Sendai, Japan; Kazumasa Seiji, Tohoku Univ Hosp, Dept of Diagnostic Radiology, Sendai, Japan; Kei Takase, Tohoku Univ Hosp, Dept of Diagnostic Radiology, Sendai, Japan; Sadayoshi Ito, Tohoku Univ Hosp, Div of Nephrology, Endocrinology and Vascular Med, Sendai, Japan; Fumitoshi Satoh, Tohoku Univ Hosp, Div of Clinical Hypertension, Endocrinology & Metabolism, Sendai, Japan
- P334 Demographic, Risk Factors and Knowledge Profile of the Participants from a Vascular Disease Prevention Campaign - Red September**
Maurício Mello Mendes Junior, Abraão Iuri Medeiros Angelim, Ana Carolina Lessa Neno, Lais Felix da Cunha, Lívia Pinto Almeida, Lílian Soares da Costa, UNESA, Rio de Janeiro, Brazil
- P335 Effect of Aerobic Walking Exercise on Cardiovascular Health in Non-Ambulatory Stroke Survivors, a Pilot Study**
Abdufattah S Alqahtani, Ramzi A Alajam, Sarah Eickmeyer, Wen Liu, Univ of Kansas Medical Ctr, Kansas City, KS
- P336 Efficacy And Safety Of Vasodilator Beta-blocker In Elderly Hypertensive Patients: Result From BEFIT-KOERA Study**
Eun Joo Cho, Catholic Univ of Korea, Seoul, Korea, Republic of; Geu-Ru Hong, Yonsei Univ Severance hospital, Seoul, Korea, Republic of; YoungYoup Koh, Chosun Univ, Gwangju, Korea, Republic of; Dong Woon Jeon, Natl Health Insurance Service Ilsan Hosp, Ilsan, Korea, Republic of; In Hyun Jung, Inje Univ, Sanggye Paik Hosp, Seoul, Korea, Republic of; Min Kyoung Kang, Hallym Univ Kangnam Sacred Heart hospital, Seoul, Korea, Republic of; Young Mo Yang, Cheongju St. Mary's Hosp, Cheongju, Korea, Republic of; SangWon Park, A.Menarini Korea Ltd., Seoul, Korea, Republic of; Jae Hyung Kim, Catholic Univ of Korea, Seoul, Korea, Republic of
- P337 Src Signaling and Toll-like Receptor 4 (TLR4) are Involved in Ouabain-induced Endothelial Cell Inflammation**
Yemin Zhang, Cameron McCarthy, Fabiano Beraldi Calmasini, Camilla Ferreira Wenceslau, Safia Ogbi, Patricia Martinez Quinones, R. Clinton webb, Dept of Physiology, Medical Coll of Georgia, Augusta Univ, Augusta, GA

Poster Presentations (continued)

- P338 Aging and Inhibition of Nox1/4 Modulate Perivascular Inflammation in Spontaneous Hypertension**
Ryszard Nosalski, Tomasz Mikolajczyk, Univ of Glasgow, Glasgow, United Kingdom; Mateusz Siedlinski, Joanna Maciag, Jagiellonian Univ Collegium Medicum, Krakow, Poland; Tomasz Guzik, Univ of Glasgow, Glasgow, United Kingdom
- P340 Variable Pressor And Sympathetic Responsiveness Reflects Neurotransmitter Imbalance In The Paraventricular Nucleus That Is Prevented By Loss Of Renal Sensory Nerves**
Mark M Knuepfer, St. Louis Univ Sch of Med, Saint Louis, MO; Hong Zheng, Xuefei Liu, Basic Biomedical Sciences, Vermillion, SD; Neeru M. Sharma, Kaushik P. Patel, Univ of Nebraska Medical Ctr, Omaha, NE
- P341 Melanocortin Receptor 4 Activation Mediates Leptin-induced Sensitization Of The Angiotensin II-elicited Hypertensive Response In Mice**
Baojian Xue, Terry G. Beltz, Fang Guo, Alan Kim Johnson, UNIVERSITY IOWA, Iowa City, IA
- P342 Management of Coexistent Neurogenic Orthostatic Hypotension and Supine Hypertension: A Case Study**
David S Cannom, Good Samaritan Hosp, Los Angeles, CA
- P343 Utility of Autonomic Testing for the Diagnosis of Neurogenic Orthostatic Hypotension and Subsequent Management With Droxidopa**
Sami B Alam, Waiel Almarini, Amer Suleman, The Heartbeat Clinic, McKinney, TX
- P344 Vascular Purinergic Neurotransmission is Not Altered in High Fat-Fed Dahl S Hypertension**
Sutheera Sangsiri, Faculty of Med, Thammasat Univ, Pathumthani, Thailand; James J. Galligan, Neuroscience Program, Michigan State Univ, East-Lansing, MI
- P345 The Cost-Effectiveness of Home BP Telemonitoring in Patients with a Cerebrovascular Event**
Raj Padwal, Peter Wood, Helen So, Scott Klarenbach, Univ of Alberta, Edmonton, AB, Canada
- P346 Impact of the Changing Guidelines in the Classification of Patients: Insights from a Real Life mHealth Digital Registry**
Gaia Del Mauro, Tommaso Bordignon, Martina Fabi, Eros Colombo, AMICOMED INC, SAN FRANCISCO, CA; Domenico Cianflone, UNIVERSITA VITA-SALUTE SAN RAFFAELE, MILANO, Italy
- P347 How Did Another 30% Of Americans Develop High Blood Pressure Overnight? An Analysis Of The New AHA/ACC Blood Pressure Guidelines And Their Impact In Communities Across The Country**
Ross Goglia, Higi, Chicago, IL; Khan Siddiqui, Johns Hopkins Univ Sch of Med; Higi, Chicago, IL; Daniel Neems, Higi, Chicago, IL
- P348 Evaluation of Check. Change. Control. in the Asian American & Pacific Islander community**
Cevadne Lee, Sang-Mi Oh, American Heart Association, Los Angeles, CA
- P349 Establishing Correction Factors for Oscar and SpaceLabs 90207 Oscillometric Ambulatory Blood Pressure Monitors**
Vincent Patteson Lombardi, Patrick C Reichhold, Nicholas R. Dietz, Natalie J. DeBell, Donald L. Pate, Univ of Oregon, Eugene, OR
- P350 Early Signs Of Stress Induced Arterial Hypertension During Cardiopulmonary Testing And Advantages In Cardiac Risk Lowering**
Elena A Kolesnikova, Gregory P Arutyunov, Anna Rylova, Pirogov Russian Natl Res Medical Univ, Moscow, Russian Federation
- P351 Improving the Management of Hypertension for Adults: The Impact of Home Blood Pressure Monitoring and Lessons Learned from a System-Level Hypertension Control Initiative**
Roy R Champion Jr., Zachary Rice, Emran Rouf, Scott & White Health Plan, Temple, TX
- P352 The Quality of Blood Pressure Measurement in the Hemodialysis Unit**
Jesse Bittman V6R 1W7, Univ of British Columbia, Vancouver, BC, Canada; Thuy Pham, Mari Sarian, Sheldon Tobe, Sunnybrook Health Sciences Ctr, Toronto, ON, Canada
- P353 Comparability of Oscillometric to Simultaneous Auscultatory Blood Pressure Measurement in Children**
Jennifer S Ringrose, Abdullah Alabbas, Afrooz Jalali, Harsimran Khinda, Catherine Morgan, Verna Yiu, R. Todd Alexander, Raj Padwal, Univ of Alberta, Edmonton, AB, Canada
- P354 Performance of Different Oscillometric Blood Pressure Algorithms in Patients with Chronic Kidney Disease**
Jennifer S. Ringrose, Kevan Smith, Afrooz Jalali, Harsimran Khinda, Isaac Wirzba, Hannah Eche-Ameh, Aminu K Bello, Branko Braam, Raj Padwal, Univ of Alberta, Edmonton, AB, Canada
- P355 Is Knowledge of Proper Technique a Barrier to Accurate Blood Pressure Measurement in the Hemodialysis Unit?**
Jesse Bittman V6R 1W7, Univ of British Columbia, Vancouver, BC, Canada; Thuy Pham, Mari Sarian, Sheldon Tobe, Sunnybrook Health Sciences Ctr, Toronto, ON, Canada
- P356 Community Hypertensive Control Is Improved By Pharmacists In A Closed-loop Digital Healthcare Ecosystem: A Real World Study Of Large Samples**
Yingjie Li, Ying Chen, Dongxing Li, Zhen Wang, Hongguang Zhang, Kai Liu, CareLinker Co., Ltd., Shanghai, China
- P357 A pharmacy-based Software as a Service (SaaS) approach improved medication adherence of hypertensive patients**
Yingjie Li, Ying Chen, Dongxing Li, Zhen Wang, Hongguang Zhang, Kai Liu, CareLinker Co., Ltd., Shanghai, China

Poster Presentations (continued)

- P358 Improvement In Antihypertensive Medication Adherence And Persistence Using A Mobile Technology Application**
Catherine McGuinness, IQVIA, Plymouth meeting, PA; Jon Michaeli, Medisafe, Boston, MA; Jennifer Millard, Xin Wang, Rolin L. Wade, IQVIA, Plymouth meeting, PA
- P359 Management Of Hypertension And Diabetes Comorbidity By Pharmacists In A Digital Setup**
Wei Wang, Shanghai RuiJin Hosp, JiaoTong Univ Sch of Med, Shanghai, China; Zhen Wang, Hongguang Zhang, Ying Chen, Yingjie Li, Dongxing Li, Kai Liu, CareLinker Co., Ltd., Shanghai, China; Jiumei Cao, Shanghai RuiJin Hosp, JiaoTong Univ Sch of Med, Shanghai, China
- P360 Potential Need for Expanded Clinical- and Community-based Pharmacologic Treatment and Lifestyle Modification Services under the 2017 Hypertension Guideline**
Gregory Wozniak, American Medical Association, Chicago, IL; Matthew Ritchey, Cathleen Gillespie, Ctrs for Disease Control and Prevention, Atlanta, GA; Christina Shay, American Heart Association, Dallas, TX; Angela Thompson-Paul, Fleetwood Loustalot, Yuling Hong, Ctrs for Disease Control and Prevention, Atlanta, GA
- P361 Single Pill Combination Therapy is Not Superior to Free Combination Therapy for Controlling Hypertension**
Wasseem Rock, Shereen Dabbah, Sofia Rimbrot, Emek Medical Ctr, Afula, Israel; Shiraz Vered, Statistics department, Haifa University, Israel; Ehud Grossman, Yehonatan Sharabi, Sheba Medical Ctr, Tel Hashomer, Israel
- P362 Change Of P Wave Parameters After Switching Anti-hypertensive Agent From Free Drug Combination Into Fixed Dose Combination**
Young Jae Ki, Joong Wha Chung, Dept of Internal Med, Chosun Univ Sch of Med, Gwangju, Korea, Republic of; Young Uk Seo, Dept of Internal Med Cheomdan Hosp, Gwangju, Korea, Republic of
- P363 Risk Factors Associated with Uncontrolled Hypertension in Low Income Jordanians**
Mohd Shara, Jordan Univ of Science & Technology, Irbid, Jordan; Samar Zayadeen, Yarmouk Univ, Irbid, Jordan
- P364 Health Insurance status affects Hypertension Control in a Hospital Based General Internal Medicine Clinic**
AYODEJI OSO, Meharry Medical Coll, Nashville, TN; Abiodun Adefurin, Meharry Medical Coll, Antioch, TN; Monique Benneman, Olatunde Oso, Muinat Taiwo, Meharry Medical Coll, Nashville, TN; Oluwafisayo Adebijoyi, Indiana Univ Sch of Med, Indianapolis, IN; Olukemi Oluwole, Medical Univ of South Carolina, Charleston, SC
- P365 Circulating and Kidney EVs in Angiotensin-induced HTN In Mice**
Sabrina La Salvia, Luca Musante, Joanne Lannigan, Sylvia Cechova, Thu H Le, Uta Erdbrügger, Univ of Virginia, Charlottesville, VA
- P366 Summary Proceedings From The American Heart Association Western Affiliate Commission Of Blood Pressure Task Force: Statement On Institutional And Population Health Strategies To Achieve Blood Pressure Control In Diverse Communities**
Tony Kuo, David Geffen Sch of Med at UCLA, Los Angeles, CA; Steven Chen, USC Sch of Pharmacy, Los Angeles, CA; Sang-Mi Oh, American Heart Association, Western States Affiliate, San Jose, CA; Cevadne Lee, American Heart Association, Western States Affiliate, Los Angeles, CA; Lily Fu, USC Sch of Pharmacy, Los Angeles, CA; Commission of Blood Pressure Task Force AHA Western States Affiliate, American Heart Association, Los Angeles, CA
- P367 Adherence Assessment Via Comprehensive Identification and Quantitation of Circulating Medications with Significant Correlation to Lower Blood Pressure Observed in Hypertensive Patients**
J Scott Daniels, Ryan D Morrison, Stephen B Milne, Precera Bioscience, Franklin, TN; Candace D McNaughton, Dept of Emergency Med, Vanderbilt Univ Medical Ctr, Nashville, TN; Jeffrey J Sutherland, Data Solutions Consulting, LLC, Lincoln, MA
- P368 Predicting the Risk of Refractory Hypertension**
Michael Buhnerkempe, Albert Botchway, Dept of Internal Med, Ctr for Clinical Res, Southern Illinois Univ Sch of Med, Springfield, IL; Carlos E. Nolasco Morales, Vivek Prakash, John M. Flack, Dept of Internal Med, Div of General Internal Med, Hypertension Section, Southern Illinois Univ Sch of Med, Springfield, IL
- P369 Non-Adherence to Antihypertensive Medications is Associated with Higher BP and Anxiety Levels**
Maria El Hachem, Mohammed Siddiqui, Stephen J Thomas, Tanja Dudenbostel, Badhma Valaiyapathi, Eric Judd, Univ of Alabama at Birmingham, Birmingham, AL; Prashanth Patel, Univ of Leicester, Leicester, United Kingdom; Pankaj Gupta, Univ of Leicester, Leicester, United Kingdom; Maciej Tomaszewski, Univ of Manchester, Manchester, United Kingdom; Suzanne Oparil, David A Calhoun, Univ of Alabama at Birmingham, Birmingham, AL
- P370 The Efficacy of Fixed Combination Lisinopril and Hydrochlorothiazide in Obese Hypertensive Women**
Vesna Stojanov, Nenad Radivojevic, Clinical Ctr of Serbia, Belgrade, Serbia; Katarina Paunovic, Branko Jakovljevic, Inst of Hygiene and Medical Ecology, Belgrade, Serbia

Poster Presentations (continued)

P371 The Effects Of Omega-3 Fatty Acid Ethyl Esters On QT Dispersion And Corrected QT Dispersion In Hypertensive Patients With Left Ventricular Hypertrophy

Young Jae Ki, Joong Wha Chung, Dept of Internal Med, Chosun Univ Sch of Med, Gwangju, Korea, Republic of; Young Uk Seo, Dept of Internal Med, Cheomdan Hosp, Gwangju, Korea, Republic of

P372 The Effect Of Periodic Fasting On Patients With Hypertension And Metabolic Syndrome

Andras Balogh, Experimental and Clinical Res Ctr & Charité Univsmedizin Berlin & DZHK, Berlin, Germany; Nico Steckhan, Charité Univsmedizin Berlin & Immanuel Hosp Berlin, Berlin, Germany; Sofia K. Forslund, Experimental and Clinical Res Ctr & Charité Univsmedizin Berlin & Max Delbrück Ctr for Molecular Med & BIH, Berlin, Germany; Nicola Wilck, Experimental and Clinical Res Ctr & Charité Univsmedizin Berlin & DZHK, Berlin, Germany; Ibrahim Hamad, VIB Ctr for Inflammation Res (IRC), Hasselt Univ, Diepenbeek, Netherlands; Ellen G. Avery, Urša Šušnjar, Experimental and Clinical Res Ctr & Max Delbrück Ctr for Molecular Med, Berlin, Germany; Christoph Hohmann, Charité Univsmedizin Berlin & Immanuel Hosp Berlin, Berlin, Germany; Till Strowig, Helmholtz Ctr for Infection Res, Braunschweig, Germany; Ralf Dechend, Experimental and Clinical Res Ctr & Charité Unversitätsmedizin Berlin & DZHK & BIH & Helios Hosp, Berlin, Germany; Markus Kleinewietfeld, VIB Ctr for Inflammation Res (IRC), Hasselt Univ, Diepenbeek, Netherlands; Andreas Michalsen, Charité Univsmedizin Berlin & Immanuel Hosp Berlin, Berlin, Germany; Dominik N. Mueller, Experimental and Clinical Res Ctr & Max Delbrück Ctr for Molecular Med, Charite Unversitätsmedizin Berlin & DZHK & BIH, Berlin, Germany

P373 Design for a Pragmatic Trial Comparing Telehealth Care and Clinic-Based Care for Uncontrolled High Blood Pressure

Karen L Margolis, Anna R Bergdall, A Lauren Crain, Patrick J O'Connor, Leif I Solberg, MarySue Beran, Jeanette Y Ziegenfuss, HEALTHPARTNERS INSTITUTE, Minneapolis, MN; Beverly B Green, Kaiser Permanente Washington Health Res Inst, Seattle, WA; Pamala A Pawloski, Daniel J Rehrauer, Deepika Appana, Rashmi Sharma, Christine K Norton, Patricia Haugen, JoAnn M Sperl-Hillen, HEALTHPARTNERS INSTITUTE, Minneapolis, MN

P374 24-h Blood Pressure Profile, Non-dipping Status And Incidence Of Resistant Hypertension In Patients Randomized To Bariatric Surgery Versus Medical Therapy: The Gateway Randomized Trial Carlos

Aurelio Schiavon, Dimas Ikeoka, Eliana V Santucci, Renato N Santos, Lucas P Damiani, Juliana D Oliveira, Camila R Torreglosa, Angela C Bersch-Ferreira, Tamiris A Miranda, Heart Hosp, São Paulo, Brazil; Silvana de Barros, HCFMUSP, São Paulo, Brazil; Hélio Halpern, Frederico L Monteiro, Heart Hosp, São Paulo, Brazil; Ricardo V Cohen, Oswaldo

Cruz German Hosp, São Paulo, Brazil; Patricia M Noujaim, Heart Hosp, São Paulo, Brazil; Márcio G Souza, Celso Amodeo, Dante Pazzanese Inst of Cardiology, São Paulo, Brazil; Luiz Bortolloto, Heart Inst, São Paulo, Brazil; Otávio Berwanger, Albert Einstein Hosp, São Paulo, Brazil; Alexandre B Cavalcanti, Heart Hosp, São Paulo, Brazil; Luciano F Drager, Heart Inst, São Paulo, Brazil

P375 Association Between Use Of Alpha-blockers And Hypotension And Hypotension-related Clinical Events In Patients With Hypertension

Swapnil Hiremath, Marcel Ruzicka, Manish Sood, Ottawa Hosp, Ottawa, ON, Canada

P376 The Monitoring By A Pharmacist Facilitator, Of Side Effect, Is Useful To Report Adverse Reactions Associated With Antihypertensive Agents In Practical Clinic In South Italy

Alessia Maretta, AO of Cosenza, Cosenza, Italy; Giuseppina Fersini, Pharmaceutical Policies, Pharmacovigilance and Conventional Pharmaceutical Unit, Regione Calabria, Catanzaro, Italy; Valentina Salerno, Francesca Saullo, Roberta Virno, Pharmacovigilance Regional Ctr, Regione Calabria, Catanzaro, Italy; Vitaliano Spagnuolo, Lipid Ctr Cosenza, AO of Cosenza, Cosenza, Italy

P377 Effect Of Salt Diet On Haplotype Specific Expression Of Human Angiotensinogen Gene

Indu Sivankutty, Brahmaraju Mopidevi, Sravan Perla, Sudhir Jain, Ashok Kumar, NEW YORK MEDICAL COLLEGE, VALHALLA, NY

P378 Dahl Salt-sensitive Rats Exhibit Aberrant Renal Hemodynamic Responses To A High Salt Diet And Salt-sensitive Hypertension As Compared To Consomic SS.BN1 Rats

Aaron J Polichnowski, Jacqueline Potter, Shannon Allen, Rhessa Dykes, Michelle Duffourc, East Tennessee State Univ, Johnson City, TN; Geoffrey A. Williamson, Illinois Inst of Technology, Chicago, IL

P379 Paradoxical Natriuretic Peptide Resetting in Astronauts

Petra Frings-Meuthen, Jens Jordan, German Aerospace Ctr, Cologne, Germany; Ralf Lichtinghagen, Hannover Medical Sch, Hannover, Germany; Scott Smith, NASA Johnson Space Ctr, Houston, TX; Martina Heer, Univ of Bonn, Bonn, Germany

P380 Inverse Circadian Pattern in the Renal Generation of Tumor Necrosis Factor-alpha (TNF α) and Angiotensinogen (AGT) in Salt-sensitive Hypertension (SSH) Induced by Angiotensin II (AngII) in Mice

Alexander Castillo, Nadia Khan, Isabella Shindler, L. Gabriel Navar, Dewan S. A. Majid, Tulane Univ Sch of Med, New Orleans, LA

Poster Presentations (continued)

- P381 Deletion of Na⁺/H⁺ Exchanger 3 Selectively in The Proximal Tubule of The Kidney Augments Acute and Chronic Natriuretic responses to Saline Volume Expansion in Mice**
Xiao C Li, UNIV MISSISSIPPI MEDICAL CTR, Jackson, MS; Manoocher Soleimani, Univ of Cincinnati, Cincinnati, OH; Hoang T Nugyen, Jia L Zhuo, UNIV MISSISSIPPI MEDICAL CTR, Jackson, MS
- P382 The role of Atrial Natriuretic Peptide in cardiac damage during salt sensitive hypertension**
Daria Ilatovskaya, Medical Univ of South Carolina, Charleston, SC; Kristen Winsor, Adrian Zietara, Mark Paterson, Vladislav Levchenko, Alison Kriegel, Alexander Staruschenko, Medical Coll of Wisconsin, Milwaukee, WI
- P383 High Sodium Intake is Independently Associated with Subclinical Hypercortisolism in Hypertensive Patients**
Giacomo Rossitto, Univ of Glasgow, Glasgow, United Kingdom; Giuseppe Maiolino, Silvia Lerco, Valeria Bisogni, Maurizio Cesari, Giulio Ceolotto, Univ di Padova, Padova, Italy; Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom; Alessio Pinato, Mario Plebani, Gian Paolo Rossi, Univ di Padova, Padova, Italy; Christian Delles, Univ of Glasgow, Glasgow, United Kingdom
- P384 Conditional knockout of Acid Ceramidase in Renal Collecting Ducts Induced Sodium Retention in Mice**
Weili Wang, Pin-Lan Li, Joseph Ritter, Ningjun Li, Virginia Commonwealth Univ, Richmond, VA
- P385 The Enhanced Antihypertensive Effect by a Combination Diet of Allium Bakeri and Capsaicin in 2-Kidney, 1-Clip Renovascular Hypertensive Rats**
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Hossam A Shaltout, WAKE FOREST UNIVERSITY, Winston Salem, NC
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Gavin Robertson, Alan Fleming, Optos PLC, Dunfermline, United Kingdom; Michelle C Williams, Ctr of Cardiovascular Science, Univ of Edinburgh, Edinburgh, United Kingdom; Emanuele Trucco, The VAMPIRE project, Computer Vision and Image Processing Group, Sch of Science and Engineering, Univ of Dundee, Dundee, United Kingdom; Nicola Quinn, Ruth E Hogg, Gareth J McKay, Ctr for Public Health, Queen's Univ Belfast, Belfast, United Kingdom; Enrico Pellegrini, Optos PLC, Dunfermline, United Kingdom; David E Newby, Ctr of Cardiovascular Science, Univ of Edinburgh, Edinburgh, United Kingdom; Edwin J van Beek, Ctr of Cardiovascular Science, Univ of Edinburgh, Edinburgh, UK, Edinburgh, United Kingdom; Tunde Peto, Ctr for Public Health, Queen's Univ Belfast, Belfast, United Kingdom; Baljean Dhillon, The VAMPIRE project, Ctr for Clinical Brain Sciences, Univ of Edinburgh, Edinburgh, United Kingdom; Jano van Hemert, Optos PLC, Dunfermline, United Kingdom; Tom MacGillivray, The VAMPIRE project, Ctr for Clinical Brain Sciences, Univ of Edinburgh, Edinburgh, United Kingdom
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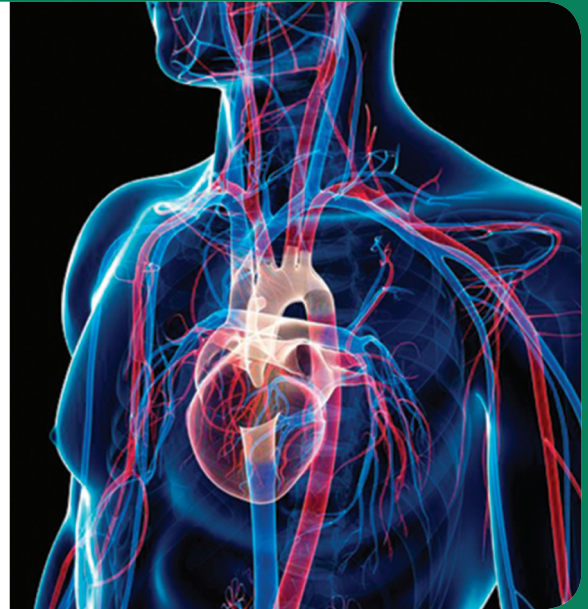
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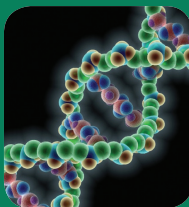
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