



AHA Council on Hypertension
AHA Council on Kidney in Cardiovascular Disease
American Society of Hypertension
Joint Scientific Sessions 2017

Joint Hypertension 2017

Scientific Sessions

Final Program

September 14–17, 2017 | Hyatt Regency San Francisco | San Francisco, CA

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. 14		Friday, Sept. 15		Saturday, Sept. 16		Sunday, Sept.17	
7:00 AM Coffee & Exhibits		7:00 AM Coffee & Exhibits		6:00 AM Coffee & Exhibits		6:00 AM Coffee & Exhibits	
Session 1 7:45-8:00 AM President's Welcome 8:00-9:15 AM Opening Remarks and Lectures Current State of Adult Hypertension in 2017; New Pediatric 2017 Guidelines in Hypertension; New Evidence of the Impact of Hypertension on Global Health in 2017 Session 1 9:15-10:00 AM Panel Discussion		Session 6 8:00-9:00 AM Debate: Dietary Salt Recommendations: Are the AHA Guidelines Appropriate? Session 7 9:00-9:40 AM Hot Topics in Hypertension		Concurrent Session 13 7:30-8:00 AM Donald Seldin Award Lecture 8:00-9:30 AM A: Vascular Biology and Dysfunction B: Renal Vascular Function in Health and Disease C: Hypertension Journal Case Studies		Concurrent Session 13 7:00-9:30 AM D: Primary Care Track —Treating Co-Morbidities in Those with Hypertension	
Concurrent Session 18 7:30-8:00 AM Dahl Award Lecture 8:00-9:30 AM A: Neurogenic Mechanisms II B: Vascular Stiffness C: Epidemiology		Concurrent Session 18 7:00-9:30 AM D: Clinical Practice Clinical Science Track —The Sympathetic Nervous System and BP Control					
10:00-10:30 AM Refreshment Break		9:40-10:10 AM Refreshment Break		9:30-10:00 AM Refreshment Break		9:30-9:45 AM Break	
Session 2 10:30-11:10 AM Obesity and Cardiovascular Disease		Session 8 10:10-11:00 AM Women's Health		Concurrent Session 14 10:00-10:30 AM The Harriet Dustan Award Lecture 10:30 AM-12:00 PM A: Blood Pressure Monitoring B: Obesity and Diabetes II C: Neurogenic Mechanisms I		Concurrent Session 14 10:00 AM-12:00 PM D: Primary Care Track 10:00-11:00 AM Common Conundrums in Treating Hypertension 11:00 AM-12:00 PM Three Unknown and Challenging Cases in Hypertension	
Session 3 11:10 AM-12:20 PM Hypertension, Stroke, and Dementia		Session 9 11:00-11:40 AM The Brain and Hypertension				Concurrent Session 19 9:45-11:00 AM A: Salt Sensitive Hypertension B: Renin-Angiotensin System II C: Developmental Programming and Pregnancy Induced Hypertension	
						Concurrent Session 19 9:45-11:00 AM D: Clinical Practice Clinical Science Track Clinical Trials in Hypertension and Related Morbidities	
11:50 AM-12:50 PM Lunch on your own		11:40 AM-12:40 PM Lunch on your own		12:00-1:30 PM Awards Luncheon and Business Meeting <i>(Ticket required)</i>		11:00 AM Meeting Adjourns See you next year: Hypertension 2018 Scientific Sessions September 6-9, 2018 Hyatt Regency Chicago, Chicago, IL	
Concurrent Session 4 12:50-2:50 PM A: Inflammation, Immunity & Cytokines B: Asian Pacific Symposium on Cardiovascular Research C: Renin Angiotensin System I	Concurrent Session 4 12:50-2:50 D: Clinical Practice Clinical Science Track: What should be the BP goal for most patients with hypertension?	12:40-2:10 PM Poster Session II	Concurrent Session 10 12:40-2:40 PM D: Primary Care Track: Adult and Pediatric Treatment of Hypertension	1:30-3:00 PM Poster Session III	Session 15 1:00-2:40 PM Clinical Practice Clinical Science Track: Masked vs. White-Coat Hypertension Session 16 2:40-3:00 PM D: Clinical Practice Clinical Science Track: Special Situations in Clinical Hypertension	Legend  Oral Session  Poster Session  Ticketed Event  Concurrent D: Clinical Practice Clinical Science Track or Primary Care Track  Lunch and Breaks	
2:50-3:05 PM Refreshment Break		2:40-3:00 PM Refreshment Break		3:00-3:30 PM Refreshment Break			
Concurrent Session 5 3:05-5:05 PM A: Obesity and Diabetes I B: Cardiac Hypertrophy and Dysfunction C: Pregnancy and Preeclampsia	Concurrent Session 5 3:05-5:25 D: Clinical Practice Clinical Science Track: Refractory vs. Resistant Hypertension	Concurrent Session 11 3:00-4:30 PM A: Gender Differences and Sex Hormones B: Hypertension Early Career Oral Awards Session C: Aldosterone Its Receptors and Other Hormones	Concurrent Session 11 3:00-5:30 PM D: Primary Care Track: Improving BP Control Rates	Concurrent Session 16 3:30-5:30 PM A: Blood Pressure Control and Adherence to Treatment B: Salt and Hypertension C: The Kidney: Causes and Consequences of Hypertension	Concurrent Session 16 3:30-5:35 PM D: Clinical Practice Clinical Science Track: Special Situations in Clinical Hypertension		
5:30-7:30 PM Poster Session I Trainee Onsite Poster Competition with Reception		7:00-11:00 PM Trainee Advocacy Mixer		Session 17 5:45-6:30 PM The Excellence Award for Hypertension Research 7:30-8:00 PM Excellence Award for Hypertension Research Reception 8:00-10:00 PM Excellence Award for Hypertension Research Dinner			

Letter From the Chair

September 14, 2017

Dear Colleagues,

On behalf of the Council on Hypertension, Council on the Kidney in Cardiovascular Disease of the American Heart Association, and the American Society of Hypertension, it is my pleasure to welcome you to the Joint Hypertension 2017 Scientific Sessions. This conference, focusing on recent advances in basic and clinical research on hypertension, is considered the premier scientific meeting on the subject in the world. The science submitted to this conference continues to bring us the most up to date developments on our understanding of: the causes of hypertension; its relationship to stroke, cardiac disease and kidney dysfunction; and the most effective means for detecting, evaluating and treating high blood pressure across diverse populations.

We are very pleased to have our opening lecture presented by Robert M. Carey, MD, MACP, FAHA, FRCPI, University of Virginia Health System, presenting “Current State of Adult Hypertension in 2017,” followed by Recent Advances in Hypertension on Thursday and Friday mornings. Clinical Practice Clinical Science and Primary Care Tracks are new concurrent sessions being offered throughout the conference. The Clinical Practice Clinical Science Track focuses on applying clinical science to the clinician’s practice and the Primary Care Track is a ‘Meeting within a Meeting’ dedicated to practical advice for the Primary Care Provider (PCP) interested in clinical hypertension. The expansion of concurrent sessions has allowed a 30% increase in the total numbers of abstract-driven oral presentations. We have approximately 600 abstracts being presented at our 3 ½ day meeting – 150 of those being oral.

We hope that you take full advantage of all the excellent programming throughout the conference and enjoy your time here in San Francisco, California. We strive to create an atmosphere of enrichment for conference attendees. Please let us know if there is anything we can do to enhance your experience during your time here. We look forward to interacting with you during the next few days

Sincerely,



A handwritten signature in cursive script that reads "Karen A. Griffin MD".

Karen Griffin MD, FAHA, FASH, FACP, FASN

Karen Griffin MD, FAHA, FASH, FACP, FASN

Vice-Chair for the Council on Hypertension

Chair of the Council on Hypertension Scientific Sessions Planning Committee

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An American Heart Association Journal

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Million

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per year*

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per year*

”

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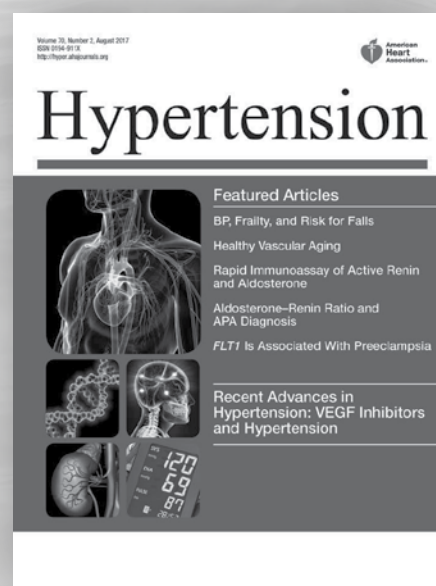
>1,700

Twitter followers‡



725

Highest Altmetric score§



hype-submit.aha-journals.org

* Based on 2016 metrics calculated by HighWire Press and Wolters Kluwer.

† 2016 Journal Citation Reports (Clarivate Analytics, 2017).

‡ As of July 2017.

§ Reflects the highest Altmetric score for a specific point in time, Feb-Jul 2017. Altmetric scores constantly change as articles are mentioned and shared online. Source: Altmetric Explorer. Article: "Healthful Dietary Patterns and the Risk of Hypertension Among Women With a History of Gestational Diabetes Mellitus: A Prospective Cohort Study." *Hypertension*. 2016;67:1157-1165. DOI: 10.1161/HYPERTENSIONAHA.115.06747.

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Questions and Information

If you have questions after reading this program, contact:

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Professional Membership Customer Service

Lippincott, Williams & Wilkins
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Fax (301) 223-2327 (outside the United States)
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*The American Heart Association is a national voluntary health organization whose mission is:
"Building healthier lives, free of cardiovascular diseases and stroke."*

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

Council on Hypertension 2017 Scientific Sessions Program Committee

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The American Heart Association's Council on Hypertension

gratefully acknowledges

Medtronic

DSI

for its financial support.

Abstract Graders

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

Barbara Alexander
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John Bisognano
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Hanjun Wang
Donna Wang
Stephanie Watts
Michael Weber
Alan Weder
Mathew Weir
William Welch
Ulrich Wenzel
Adam Whaley-Connell
William White
Robert Widdop
Jackson Wright
J. Michael Wyss
Steven Yarows
Irving Zucker

Room Locator

Wednesday, September 13, 2017		
Time	Event	Room
6:00 AM-11:00 PM	Exhibit & Registration Set-up	Grand Ballroom Foyer
10:00 AM-5:00 PM	Poster Session Set-up	Pacific A-K
2:00-7:00 PM	Registration	Grand Ballroom Foyer
3:00-7:00 PM	Speaker Resource Room	Golden Gate Room
3:30-6:30 PM	Hypertension Fall Leadership Committee Meeting	Pacific B-C
7:00-8:00 PM	Hypertension/KCVD Science Subcommittee Meeting	Regency B
Thursday, September 14, 2017		
Time	Event	Room
6:00-7:45 AM	HBPR Professional and Public Education Science Subcommittee	Regency B
6:00-7:30 AM	Thanks-a-latte	Seacliff Foyer
6:00 AM-7:00 PM	Science News	Suite 1640
7:00 AM-3:30 PM	Exhibits	Grand Ballroom Foyer
7:00 AM-6:00 PM	Speaker Resource Room	Golden Gate Room
7:00 AM-7:00 PM	Registration	Grand Ballroom Foyer
7:45-10:00 AM	Session 1: AHA's President's Welcome, Opening Remarks & Recent Advances in Hypertension	Grand Ballroom
10:00-10:30 AM	Break: Refreshment and Exhibits	Grand Ballroom Foyer
10:30-11:10 AM	Session 2: Obesity and Cardiovascular Disease	Grand Ballroom
11:10-11:50 AM	Session 3: Hypertension, Stroke and Dementia	Grand Ballroom
11:50-12:50 PM	Lunch on your own	
12:00-5:00 PM	Poster Session 1 Set-up	Pacific A-K
12:20-12:50 PM	TAC Mentoring Luncheon	Waterfront A
Session 4		
12:50-2:50 PM	Concurrent A: Inflammation, Immunity & Cytokines	Grand Ballroom
12:50-2:50 PM	Concurrent B: Asian Pacific Symposium on Cardiovascular Research	Seacliff Room
12:50-2:50 PM	Concurrent C: Renin Angiotensin System I	Pacific L-O
12:50-2:50 PM	Concurrent D: Clinical Practice Clinical Science: What Should be the BP Goal for Most Patients with Hypertension	Bayview Room
2:50-3:05 PM	Break: Refreshments and Exhibits	Grand Ballroom Foyer
Session 5		
3:05-5:05 PM	Concurrent A: Obesity and Diabetes I	Grand Ballroom
3:05-5:05 PM	Concurrent B: Cardiac Hypertrophy and Dysfunction	Seacliff Room
3:05-5:05 PM	Concurrent C: Pregnancy and Preeclampsia	Pacific L-O
3:05-5:30 PM	Concurrent D: Clinical Practice Clinical Science: Refractory vs. Resistant Hypertension	Bayview Room
5:30-7:30 PM	Poster Session I (for Trainees) with Reception	Pacific A-K
Friday, September 15, 2017		
Time	Event	Room
6:00 AM-7:00 PM	Science News	Suite 1640
7:00 AM-3:30 PM	Exhibits	Grand Ballroom Foyer
6:15-8:00 AM	<i>Hypertension</i> Editors Breakfast Meeting	Regency B
7:00-8:00 AM	Coffee and Exhibits	Grand Ballroom Foyer
7:00 AM-6:00 PM	Speaker Resource Room	Golden Gate Room
7:00 AM-7:00 PM	Registration	Grand Ballroom Foyer
8:00-9:00 AM	Session 6: Debate: Dietary Salt Recommendations: Are the AHA Guidelines Appropriate?	Grand Ballroom

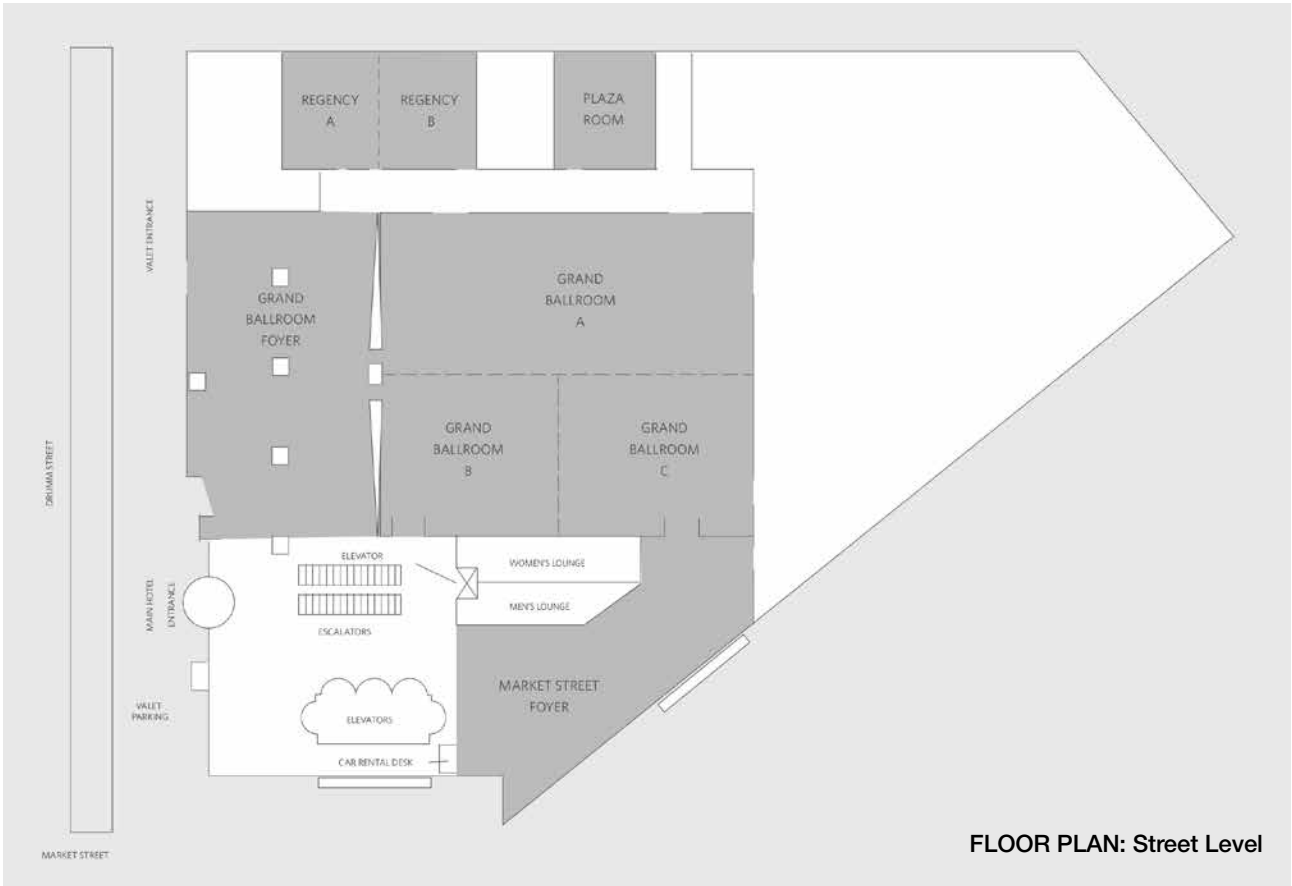
Room Locator (continued)

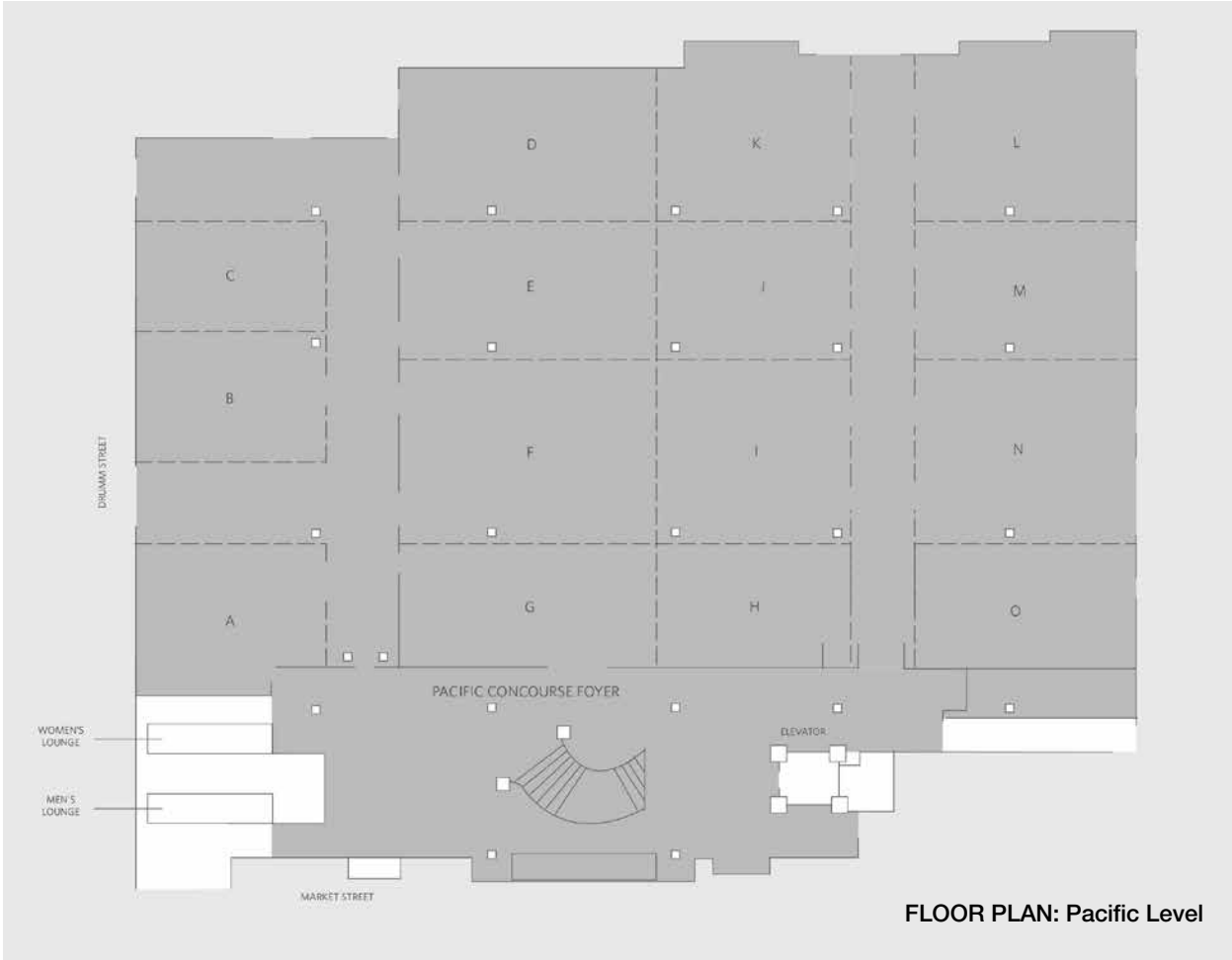
9:00-9:40 AM	Session 7: Hot Topics in Hypertension	Grand Ballroom
9:40-10:10 AM	Break: Refreshments and Exhibits	Grand Ballroom Foyer
10:10- 11:00 AM	Session 8: Women's Health	Grand Ballroom
11:00-11:40 AM	Session 9: The Brain and Hypertension	Grand Ballroom
11:40 AM-12:40 PM	Lunch on your own	
12:40-2:10 PM	Poster Session II	Pacific A-K
12:40-2:40 PM	Session 10: Concurrent D: Primary Care Track: Adult and Pediatric Guidelines for Hypertension	Bayview Room
2:10-2:40 PM	Session 10: Arthur C. Corcoran Memorial Lecture	Grand Ballroom
2:40-3:00 PM	Break: Refreshments and Exhibits	Grand Ballroom Foyer
Session 11		
3:00-4:30 PM	Concurrent A: Gender Differences and Sex Hormones	Grand Ballroom
3:00-4:30 PM	Concurrent B: Hypertension Early Career Oral Awards Session	Seacliff Room
3:00-4:30 PM	Concurrent C: Aldosterone, Its Receptors and Other Hormones	Pacific L-O
3:00-5:30 PM	Concurrent D: Primary Care Track: Improving BP Control Rates	Bayview Room
Session 12 Awards Session		
4:30-4:50 PM	Mid-Career Award for Research Excellence	Grand Ballroom
4:50-5:05 PM	Harry Goldblatt New Investigator Award	Grand Ballroom
5:05-5:20 PM	British Hypertension Society Young Investigator Award	Grand Ballroom
5:20-5:35 PM	High Blood Pressure Council Australia High Research Award	Grand Ballroom
7:00-11:00 PM	Trainee Advocacy Mixer	Garden Room
Saturday, September 16, 2017		
Time	Event	Room
6:00 AM-5:30 PM	Exhibits	Grand Ballroom Foyer
6:00 AM-6:00 PM	Speaker Resource Room	Golden Gate Room
6:00 AM-7:00 PM	Science News	Suite 1640
6:00 AM-7:00 PM	Registration	Grand Ballroom Foyer
Session 13		
7:00-9:30 AM	Concurrent D: Primary Care Track: Treating Co-Morbidities in Those with Hypertension	Bayview Room
7:30-8:00 AM	Donald Seldin Award Lecture	Grand Ballroom A
8:00-9:30 AM	Concurrent A: Vascular Biology and Dysfunction	Grand Ballroom A
8:00-9:30 AM	Concurrent B: Renal Vascular Function in Health and Disease	Seacliff Room
8:00-9:30 AM	Concurrent C: <i>Hypertension</i> Journal Clinical-Pathological Conference	Pacific L-O
9:30-10:00 AM	Break: Refreshments and Exhibits	Grand Ballroom Foyer
Session 14		
10:00 AM-12:00 PM	Concurrent D: Primary Care Track: Common Conundrums in Treating Hypertension and Three Unknown and Challenging Cases in Hypertension	Bayview Room
10:00-10:30 AM	Session 14: Harriet Dustan Award Lecture	Grand Ballroom A
10:30 AM-12:00 PM	Concurrent A: Blood Pressure Monitoring	Grand Ballroom A
10:30 AM-12:00 PM	Concurrent B: Obesity and Diabetes II	Seacliff Room
10:30 AM-12:00 PM	Concurrent C: Neurogenic Mechanisms I	Pacific L-O
12:00-1:30 PM	Awards and Annual Business Meeting Luncheon (<i>Ticket required</i>)	Grand Ballroom BC
Session 15		
1:30-3:00 PM	Poster Session III	Pacific A-K

Room Locator (continued)

1:30-3:00 PM	Concurrent D: Clinical Practice Clinical Science Track: Masked vs. White-Coat Hypertension and Special Situations in Clinical Hypertension	Bayview Room
3:00-3:30 PM	Break: Refreshments and Exhibits	Grand Ballroom Foyer
Session 16		
3:30-5:30 PM	Concurrent A: Blood Pressure Control and Adherence to Treatment	Grand Ballroom
3:30-5:30 PM	Concurrent B: Salt and Hypertension	Seacliff Room
3:30-5:30 PM	Concurrent C: The Kidney: Causes and Consequences of Hypertension	Pacific L-O
3:30-5:00 PM	Concurrent D: Clinical Practice Clinical Science: Special Situations in Clinical Hypertension (continued)	Bayview Room
5:30-5:45 PM	Break: Refreshments and Exhibits	Grand Ballroom Foyer
5:45-6:30 PM	Oral Session 17: The Excellence Award in Hypertension Research Lecture	Grand Ballroom
7:30-8:00 PM	Excellence Award in Hypertension Research Reception (Ticketed Event)	Lower/Upper Atrium
8:00-10:00 PM	Excellence Award in Hypertension Research Dinner (Ticketed Event)	Grand Ballroom BC
Sunday, September 17, 2017		
Time	Event	Room
6:00 AM-7:00 PM	Science News	Suite 1640
6:00-11:00 AM	Registration	Grand Ballroom Foyer
6:00-11:00 AM	Speaker Resource Room	Golden Gate Room
Oral Session 18		
7:00-9:30 AM	Concurrent D: Clinical Practice Clinical Science: The Sympathetic Nervous System and BP Control	Bayview Room
7:30-8:00 AM	The Lewis K. Dahl Award Lecture	Grand Ballroom
8:00-9:30 AM	Concurrent A: Neurogenic Mechanisms II	Grand Ballroom
8:00-9:30 AM	Concurrent B: Vascular Stiffness	Seacliff Room
8:00-9:30 AM	Concurrent C: Epidemiology	Pacific L-O
9:30-9:45 PM	Break: Refreshments and Exhibits	Grand Ballroom Foyer
Oral Session 19		
9:45-11:00 AM	Concurrent A: Salt Sensitive Hypertension	Grand Ballroom
9:45-11:00 AM	Concurrent B: Renin-Angiotensin System II	Seacliff Room
9:45-11:00 AM	Concurrent C: Developmental Programming and Pregnancy Induced Hypertension	Pacific L-O
9:45-11:00 AM	Concurrent D: Clinical Trials in Hypertension and Related Morbidities	Bayview Room
11:00 AM	Adjourn	

Hotel Maps





Program Information

Conference Summary

For 2017, 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 on this subject 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 the utility of the DASH and Mediterranean diets in the management of hypertension and opportunities to encourage their use by patients.
2. Discuss the current research and implications for clinical practice of sodium restriction in hypertension.
3. Discuss the link between dementia and hypertension and its implications for clinical practice.
4. Describe current research findings and identify opportunities to better understand genetic influences on hypertension risk and hypertension-associated comorbidities and disease processes.
5. 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.
6. Educate participants about medical approaches for the management of comorbid obesity in patients with hypertension.
7. Describe recent research exploring the role of gut dysbiosis in hypertension the clinical implications.



Hypertension

An American Heart Association Journal

EDITOR-IN-CHIEF

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Annual Top Paper Awards
Categories: Basic, Clinical, and Population Science



Program Information (continued)

Conference Highlights

Opening Session and Keynote Lecture

Please join us at 7:45 AM for the Welcoming address from AHA's President, John Warner, MD, Thursday, September 14, as well as Opening remarks from Karen Griffin, MD, Chair, Hypertension Planning Committee, Joey Granger, MD, Chair, Council on Hypertension, and John Bisognano, MD, President, American Society of Hypertension in the Grand Ballroom for the opening session of the American Heart Association's Council on Hypertension, Council on the Kidney in Cardiovascular Disease, and the American Society of Hypertension Joint Hypertension Scientific Sessions 2017. **Robert Carey, MD, MACP, FAHA, FRCPI**, University of Virginia Health System, will present the opening lecture address: *Current State of Adult Hypertension in 2017*.

Poster Session Featuring Trainees

Thursday, September 14, 5:30-7:30 PM

Friday, September 15, 12:40 – 2:10 PM

Pacific A-K

Due to the large number of abstract submissions for the Onsite Trainee Poster Competition this annual event will be held during Poster Session I, Thursday, September 14 from 5:30-7:30 PM. and Poster Session II, Friday, September 15 from 12:40-2:10 PM. This year's poster sessions will highlight presentations by trainees and feature an on-site poster competition. Awards are co-sponsored by the Council on Hypertension Trainee Advocacy Committee and the International Society of Hypertension New Investigator Committee. Be sure to join us and engage conference poster presenters on their innovative research. A reception will be held during Poster Session I. No additional fee for this event.

Awards Session

Friday, September 15, 4:30-5:35 PM

Grand Ballroom

This special session will feature several presentations, including the Mid-Career awardee, Harry Goldblatt New Investigator awardee, Australian Council Young Investigator awardee and British Hypertension Society awardee. See page 13 for a listing of all awardees and join us for this special session.

ASIAN/PACIFIC SYMPOSIUM ON CARDIOVASCULAR RESEARCH

Thursday, September 14, 12:50-2:50 PM

Seacliff Room

This session, Asian/Pacific Symposium on Cardiovascular Disease will be held from 12:50-2:50 p.m. and is in collaboration with Japanese Society of Hypertension: Wuhan University School of Medicine and Sun Yat-sen University Zhongshan Medical School, China.

Hypertension Journal Clinical-Pathological Conference

Saturday, September 16, 8:00-9:30 AM

Pacific L-O

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*.

Council on Hypertension Annual Business Meeting and Conference Awards Luncheon

Saturday, September 16, Noon-1:30 PM

Grand Ballroom B-C

The business of the Council on Hypertension will be discussed. This event also includes a celebratory lunch to acknowledge the 2017 lecture award winners, the Lifetime Achievement awardee and winners of the New Investigator Awards and the American Society of Hypertension awardee. 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 2017 award winners can be found on pages 13-16.

Program Information (continued)

Strategically Focused Research Network Poster Session

This special poster session will highlight research from the AHA's Strategically Focused Hypertension Network. The four centers focus on different areas of hypertension research, including epigenomics of hypertension; abnormal diurnal rhythm of blood pressure; organ damage in hypertensive youth; and preeclampsia. The Hypertension Network was awarded July 1, 2015 for four years. There are currently seven funded networks, and the next two — vascular disease and atrial fibrillation — have been named. Please find more information at http://professional.heart.org/professional/ResearchPrograms/StrategicallyFocusedResearchPrograms/UCM_454438_Strategically-Focused-Research-Networks.jspp

Trainee/Early Career Focused Events

We are pleased to offer several events for early-career attendees.

- Thursday, September 14, Noon-1:30 PM – CHAMP Kickoff Lunch, featuring a discussion panel entitled “The Hireable Scientist – How to be Competitive and Snatch your Position in Science”, where renowned scientists will share their thoughts on the attributes they look for when hiring for different positions.
- Thursday September 14, 5:30-7:30 PM – Poster Session 1 will feature the first portion of the Onsite Trainee Poster Competition with a reception. There is no fee for this event.
- Friday, September 15, 12:40-2:10 PM - Part of Poster Session 2 will feature the remaining Onsite Trainee Poster Competition
- Friday, September 15, 3:00-4:30 PM – Hypertension Early Career Oral Award Session. 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 International Society of Hypertension New Investigator Committee.
- Friday, September 15, 7:00 PM – Trainee Advocacy Dinner and Mixer. This popular annual event is co-sponsored by the Trainee Advocacy Committee of the Council for High Blood Pressure Research and the International Society of Hypertension New Investigator Committee. This event is supported by Data Sciences International. Open to all attendees until seating is filled.



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

Excellence Award for Hypertension Research

Supported by a grant from Novartis Pharmaceuticals Corporation

The events for this prestigious award take place Saturday, September 16, beginning with the lecture at 5:45 PM. This year's recipients, Richard Roman and Allyn Mark will be honored during a reception from 7:30-8:00 pm and a dinner beginning at 8:00 pm. **Both events require tickets.** If you didn't preregister for this event, please visit the conference registration desk to be added to the wait-list.

Exhibits

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

Exhibitor Hours:

- Thursday, September 14, 7:00 AM–3:30 PM
- Friday, September 15, 7:00 AM–3:30 PM
- Saturday, September 16, 6:00 AM–5:30 PM

Program Information (continued)

The Council on Hypertension is pleased to present . . .

The Excellence Award for Hypertension Research

Supported by a grant from Novartis Pharmaceuticals Corporation

Saturday, September 16, 2017



**Microneurographic
Studies of Sympathetic
Neural Mechanisms in
Human Hypertension**

Allyn L. Mark, MD

Professor of Medicine
University of Iowa
Carver College of Medicine



**CYP Eiconosanoids,
Hypertension, Renal
Injury and Dementia**

Richard J. Roman, PhD

Billy S. Gutyon Distinguished
Professor and Chair
Department of Pharmacology
& Toxicology
University of Mississippi
Medical Center

Lectures

5:45 PM

Grand Ballroom

Reception

7:30 PM

Lower/Upper Atrium

Preregistration or invitation only
(ticket required for entrance)

Dinner

8:00 PM

Grand Ballroom

Preregistration or invitation only
(ticket required for entrance)

Program Information (continued)

Conference Awards



Irvine Page — Alva Bradley Lifetime Achievement Award

Gregory Fink, PhD, Michigan State University

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 **Gregory Fink, PhD, Michigan State University**. Please join us for the presentation during the Awards Luncheon at Noon Saturday, September 16, in the Grand Ballroom BC.



Arthur C. Corcoran Memorial Lecture

Tomasz J. Guzik, MD, PhD, University of Glasgow

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 **Tomasz Guzik, MD, PhD, University of Glasgow** at 2:10-2:40 PM. Friday, September 15.



The Lewis K. Dahl Memorial Lecture

Satoru Eguchi, MD, PhD, FAHA, Temple University Lewis Katz School of Medicine

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.

Satoru Eguchi, MD, PhD, FAHA Temple University Lewis Katz School of Medicine will present the lecture at 7:30-8:00 AM Sunday, September 17.



The Harriet Dustan Award

Kate Maude Denton, PhD, Monash University

The Harriet Dustan Award recognizes female investigators who have made outstanding contributions in the field of hypertension. This award was established to honor the memory of Dr. Harriet Dustan, an outstanding clinician and investigator who was a tireless worker on behalf of the Council on Hypertension and the American Heart Association for 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, **Kate Maude Denton, PhD, Monash University**, will present her lecture at 10:00-10:30 AM Saturday, September 16.



The Donald Seldin Lecture

Donald E. Kohan, MD, PhD, University of Utah School of Medicine

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 the awareness about the rising epidemic of cardiovascular disease and mortality in patients with chronic kidney disease. The lecture will be presented by **Donald E. Kohan, MD, PhD, University of Utah School of Medicine** at 7:30-8:00 AM Saturday, September 16.



Mid-Career Award for Research Excellence

Alexander Staruschenko, PhD, Medical College of Wisconsin

This award recognizes a mid-career investigator active in hypertension or cardiovascular research. This year's winner, **Alexander Staruschenko, PhD, Medical College of Wisconsin**, was selected for his major contributions to the field of hypertension. He will present at 4:30-4:50 PM Friday, September 15.

Program Information (continued)



The Harry Goldblatt New Investigator Award

Sponsored by the Council on Hypertension

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

The award is named after Dr. Harry Goldblatt, a pathologist who established the first animal model of hypertension in 1934. This model provided researchers with the tools to delineate the renin-angiotensin system of blood pressure control and, eventually, to design enzyme inhibitors for the treatment of chronic hypertension. This year's winner, **Adam C. Straub, PhD, University of Pittsburgh**, will present at 4:50-5:05 PM Friday, September 15.



British Hypertension Society Young Investigator Award

Dr. Viknesh Selvarajah, University of Cambridge, winner of the BHS Young Investigator Prize, will present abstract *A Novel Mechanism for Buffering Dietary Salt in Humans: Effects of Salt Loading on Skin Sodium, VEGF-C and Blood Pressure*, at 5:05-5:20 PM Friday September 15.



High Blood Pressure Research Council of Australia Award

Quynh Nhu Dinh, BBiomedSc (Hons), La Trobe University, winner of the HBPRCA Prize, will present abstract, *Importance of Lymphocytes, Estrogen and the G Protein Coupled Estrogen Receptor 1 in Aldosterone/Salt-Induced Hypertension*, at 5:20-5:35 PM Friday September 15.

Council Distinguished Achievement Awards

Distinguished Achievement Award recognizes individuals who have made major contributions to the affairs of a scientific council over a continuing period, and have made substantial professional contributions to the field represented by the council. This award was created in 1980 to recognize AHA/ASA members for significant, original and sustained scientific contributions to new knowledge, teaching and clinical care that have advanced the association's mission "Building healthier lives, free of cardiovascular diseases and stroke."



Council on Hypertension Distinguished Achievement Award

Gregory Fink, PhD, Professor, Department of Pharmacology and Toxicology, Michigan State University, East Lansing, Michigan

Dr. Fink will be recognized at the Annual Business Meeting and Conference Awards Luncheon on Saturday, September 15, from 12:00-1:30 PM in the Grand Ballroom BC.



Council on the Kidney in Cardiovascular Disease Distinguished Achievement Award

David Ellison, MD, FAHA, Professor Oregon Clinical and Translational Research Institute, Portland, Oregon

Dr. Ellison will be recognized at the Annual Business Meeting and Conference Awards Luncheon on Saturday, September 15, from 12:00-1:30 PM in the Grand Ballroom BC.

American Society of Hypertension Awards



American Society of Hypertension Distinguished Service Award

Robert A. Phillips, MD, PhD, ASH Secretary-Treasurer

Dr. Phillips will be recognized at the Annual Business Meeting and Conference Awards Luncheon on Saturday, September 15, from 12:00-1:30 PM in the Grand Ballroom BC.



American Society of Hypertension Distinguished Service Award

Torry Mark Sansone, ASH Executive Director

Torry Mark Sansone will be recognized at the Annual Business Meeting and Conference Awards Luncheon on Saturday, September 15, from 12:00-1:30 PM in the Grand Ballroom BC. Distinguished Service Award



American Society of Hypertension Special Recognition Award

John D. Bisognano, MD, PhD, 2016-2018 ASH President

Dr. Bisognano will be recognized at the Annual Business Meeting and Conference Awards Luncheon on Saturday, September 15, from 12:00-1:30 PM in the Grand Ballroom BC. Distinguished Service Award

Program Information (continued)

Abstract Awards

Annual Council on Hypertension Conference New Investigator Award

Sponsored by the Council on Hypertension

Name	Abstract/Presentation Number	Day/Time
Maria Martinez, BS	015	Thursday, September 14, 2017, 2:20 PM
Frank Spradley, PhD	037	Thursday, September 14, 2017, 4:05 PM
Liang Xiao	001	Thursday, September 14, 2017, 12:50 PM
Javier Gomez	087	Saturday, September 16, 2017, 11:30 AM
Jing Wu	P189	Thursday, September 14, 2017, 5:30 PM
Teemu Niiranen, MD	130	Sunday, September 17, 2017, 9:00 AM
Dane Jensen, PhD	086	Saturday, September 16, 2017, 11:15 AM
Maniselvan Kuppusamy, PhD	054	Friday, September 15, 2017, 3:15 AM
Dakshnapriya Balasubbranian, MS	098	Saturday, September 16, 2017, 3:45 PM
Hana Itani, PhD	102	Saturday, September 16, 2017, 4:30 PM

Council on Hypertension New Investigator Award

Sponsored by the Council on Hypertension Trainee Advocacy Committee

Name	Abstract/Presentation Number	Day/Time
Alexa Hendricks, BS	145	Sunday, September 17, 2017, 10:30 AM
Shidan Wang, BS	089	Saturday, September 16, 2017, 3:30 PM
Erin Bruce, PhD	084	Saturday, September 16, 2017, 10:45 AM
Gemma Currie	P142	Thursday, September 14, 2017, 5:30 PM

Kidney Council New Investigator Award

Sponsored by the Council on Kidney in Cardiovascular Disease

Name	Abstract/Presentation Number	Day/Time
Andrew South, MD, MS	051	Friday, September 15, 2017, 4:00 PM
Eman Gohar, PhD	041	Friday, September 15, 2017, 3:00 PM
Tahagod Mohamed, MD	014	Thursday, September 14, 2017, 2:05 PM
Jonatan Barrera-Chimal, PhD	112	Saturday, September 16, 2017, 5:00 PM
Ekamol Tantisattamo, MD	P200	Thursday, September 14, 2017, 5:30 PM
Kohei Ueda	055	Friday, September 15, 2017, 3:30 PM
Jin Wei	039	Thursday, September 14, 2017, 4:35 PM
Nitin Kumar, PhD	139	Sunday, September 17, 2017, 10:15 AM
Madhav Menon, MBBS, MD	P322	Friday, September 15, 2017, 12:40 PM
Kamal Kassem, MD	P228	Thursday, September 14, 2017, 5:30 PM

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

Sponsored by the Trainee Advocacy Committee of the Council for High Blood Pressure Research and the International Society of Hypertension New Investigator Committee

Name	Abstract/Presentation Number	Day/Time
Carolyn Still, RN, PhD	047	Friday, September 15, 2017, 3:00 PM
Gilad Hamdani, MD	048	Friday, September 15, 2017, 3:15 PM
Jie Zhang	049	Friday, September 15, 2017, 3:30 PM
Muhammad Oneeb Rehman Mian	050	Friday, September 15, 2017, 3:45 PM
Andrew Michael South, MD	051	Friday, September 15, 2017, 4:00 PM
Katrina M Mirabito Colafella	052	Friday, September 15, 2017, 4:15 PM



IASH/COH New Investigator Award for Central and South America Trainees

This award is proudly supported by the Inter-American Society of Hypertension

Jonatan Barrera-Chimal, Instituto de Investigaciones Biomédicas
Mariano Duarte, Hospital de Clinicas Facultad de Medicina

Journal of Clinical Science Investigator Award

Supported by the Journal of Clinical Science

Program Information

AFHRE Travel Award for Patient-Oriented or Clinical Research in Hypertension ***Supported by the American Foundation for Hypertension Research and Education***

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

Name	Abstract/Presentation Number	Day/Time
J. Brian Byrd, MD, MS	053	Friday, September 15, 2017, 3:00 PM
Muhammad Oneeb Rehman Mian, PHD	P138	Thursday, September 14, 2017, 5:30 PM
Scott Hubers, MD, MSCI	079	Saturday, September 16, 2017, 11:00 AM
Andi Shahu, BS	148	Sunday, September 17, 2017, 10:00 AM
Alexandria Betz, DO	P270	Friday, September 15, 2017, 12:40 PM
Seungbum Kim, PhD	004	Thursday, September 14, 2017, 1:35 PM
Amy Arnold, PhD	P133	Thursday, September 14, 2017, 5:30 PM
Mohammed Siddiqui, MD	114	Sunday, September 17, 2017, 8:00 AM
Fares Karamat, MD	P131	Thursday, September 14, 2017, 5:30 PM
Luke Laffin, MD	P130	Thursday, September 14, 2017, 5:30 PM
Ku-Geng Huo, BSC	P159	Thursday, September 14, 2017, 5:30 PM
Rachel Luehrs, MS	P199	Thursday, September 14, 2017, 5:30 PM
Rosa Maria Bruno	P509	Saturday, September 16, 2017, 1:30 PM
Ekamol Tantisattamo, MD	P170	Thursday, September 14, 2017, 5:30 PM
Hong Seok Lee, MD	P169	Thursday, September 14, 2017, 5:30 PM

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 up to three qualified new investigators from Japan who will present abstracts at the AHA Council on Hypertension | AHA Council on Kidney in Cardiovascular Disease | American Society of Hypertension Joint Scientific Sessions 2017. The competition encourages new investigators from Japan to undertake or continue hypertension research and to participate in the conference

**Sayaka Nagata, University of Miyazaki Kenichi
Ishizawa, Teikyo University Yuta Tezuka,
Tohoku University Hospital**

Onsite Poster Competition Awards

Co-sponsored by the Council on Hypertension Trainee Advocacy Committee and the International Society of Hypertension New Investigator Committee.

The Council on Hypertension Trainee Advocacy Committee and the International Society of Hypertension New Investigator Committee support the efforts of its trainee members by sponsoring an onsite poster competition. Awards are announced at the Annual Business Meeting and Luncheon on Saturday, September 16, 2017 from 12:00pm-1:30pm.

Name	Abstract/Presentation Number	Award Category
Maleeh Ahmad	P176	Onsite Poster Award: Undergraduate
Estrellita Ujil	P139	Onsite Poster Award: Graduate Student
Megan Rhoads	P168	Onsite Poster Award: Graduate Student
Benjamin Kramer	P205	Onsite Poster Award: Graduate Student
Mani Maheshwari	P208	Onsite Poster Award: Graduate Student
Anatasia Gorelova	P248	Onsite Poster Award: Graduate Student
Hannah Morgan	P257	Onsite Poster Award: Graduate Student
Luciano Veiras Lei	P155	Onsite Poster Award: Graduate Student
Wang Livia	P177	Onsite Poster Award: Post Doctorate
Camargo Ellen	P217	Onsite Poster Award: Post Doctorate
Gillis Nayaab	P288	Onsite Poster Award: Post Doctorate
Khan Larry Agbor	P242	Onsite Poster Award: Post Doctorate
Sabrina Scoggins	P243	Onsite Poster Award: Post Doctorate
Fabio Gava	P262	Onsite Poster Award: Post Doctorate
Ayobami Eluwole	P294	Onsite Poster Award: Post Doctorate
Rice Zachary	P250	Onsite Poster Award: Jr Faculty Award
Kristen DiCarlo	P221	Onsite Poster Award: Jr Faculty Award
Huxing Cui Ashley	P274	Onsite Poster Award: Jr Faculty Award
Nesome Jessica	P178	Poster Membership Award: Early Career Poster
Faulkner	P137	Membership Award: Graduate Student Poster
	P153	Membership Award: Graduate Student

General Information

Registration

Conference registration is located in the Grand Foyer at the Hyatt Regency San Francisco. 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, September 13, and closes at 11:00 AM Sunday, September 17

Registration hours:

Wednesday, September 13	2:00 PM–7:00 PM
Thursday, September 14	7:00 AM–7:00 PM
Friday, September 15	7:00 AM–7:00 PM
Saturday, September 16	6:00 AM–7:00 PM
Sunday, September 17	6:00 AM–11:00 AM

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:

Wednesday September 13	3:00 PM–7:00 PM
Thursday, September 14	7:00 AM–6:00 PM
Friday, September 15	7:00 AM–6:00 PM
Saturday, September 16	6:00 AM–6:00 PM
Sunday, September 17	6:00 AM–11:30 AM

Abstract Information

Abstracts 001-151 will be presented as oral presentations throughout the conference.

Abstracts P100-P297 will be presented at this years' annual Trainee Onsite Poster Competition which takes place on Thursday, September 14 from 5:30-7:30 PM and Friday, September 15 from 12:40-2:10 PM.

Abstracts P298-P551 will be presented as poster presentations during Poster Session II and Poster Session III.

See pages 40-68 for details on poster presentations

Policy Information

Disclaimer

The Hypertension 2017 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 2017 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/American Stroke Association reserves the rights to all recordings or reproductions of presentations at AHA/ASA scientific conferences and meetings. Check the program for information about the availability of videotapes or audiotapes for purchase. Exceptions to this policy prohibition are:

1. Non-flash photography of the speaker and his/her presentation materials is permitted by attendees or AHA/ASA accredited reports upon the prior written consent of the AHA/ASA and of the speaker.
2. Audiotape recording for strictly personal and non-commercial use is permitted if not disruptive; and exhibitors may photograph their own booth for promotional purposes upon prior written consent of the AHA/ASA

Conference Photography

Please be aware that during HTN 2017 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 September 30, 2017.

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.



HYPERTENSION

BEIJING 2018 | CHINA
20-23 September 2018



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27th Scientific Meeting of the International Society of Hypertension
20 - 23 September 2018 | Beijing International Convention Center

REGISTRATION AND ABSTRACT
SUBMISSION OPEN 1 September 2017

NOTIFICATION OF ABSTRACT
ACCEPTANCE 15 April 2018

DEADLINE FOR ABSTRACT
SUBMISSION 28 February 2018

DEADLINE FOR EARLY
BIRD REGISTRATION 15 May 2018



CONFERENCE SECRETARIAT

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Win free registration at Hypertension Beijing 2018!

Program Agenda

THURSDAY, SEPTEMBER 14

7:00 AM

Registration/Information Desk Opens

7:00 AM

Exhibits and Coffee

Grand Ballroom Foyer

7:45–9:30 AM

Opening Remarks and Lecture

Session 1: Recent Advances in Hypertension

Grand Ballroom

Moderators:

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

John Bisognano, MD, PhD, University of Rochester Medical Center

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

John Warner, MD, President,
American Heart Association

8:00 **Opening Remarks**

Karen Griffin, MD, Chair,
Council on Hypertension Programming Committee

8:05 **Welcome**

Joey Granger, PhD, Chair, Council on Hypertension

8:10 **Welcome**

John Bisognano, MD, PhD, President,
American Society of Hypertension

8:15 **Opening Lecture:**

Current State of Adult Hypertension in 2017

Robert Carey, MD, MACP, FAHA, FRCPI,
University of Virginia Health System

8:40 **New Pediatric 2017 Guidelines in Hypertension**

Joseph T. Flynn, MD, MS, Seattle Children's Hospital

9:05 **New Evidence of the Impact of Hypertension on Global Health in 2017**

Brent Egan, MD, Medical University of South Carolina

9:30 **Panel Discussion Moderator:**

Daniel Levy, Editor of JASH

Panel Discussion

George Bakris, MD, University of Chicago
Michael Weber, MD, SUNY Downstate College
of Medicine
Ernesto Schiffrin, MD, PhD, McGill University

10:00–10:30 AM

Refreshment Break and Exhibits

Grand Ballroom Foyer

10:30–11:10 am

Session 2: Obesity and Cardiovascular Disease

Grand Ballroom

Moderator:

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

10:30 **Pathogenesis of Obesity Induced Hypertension**

Allyn Mark, MD, University of Iowa Carver College
of Medicine

10:50 **Novel Treatments of Obesity: When to Use Drugs, Devices, and Bariatric Surgery**

Michael Jensen, MD, Mayo Clinic

11:10–11:50 AM

Session 3: Hypertension, Stroke and Dementia

Grand Ballroom

Moderator:

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

11:10 **Hypertension and Dementia: Is There a Best BP for Cognition?**

Philip Gorelick, MD, Michigan State University

11:30 **Mechanisms of Cerebrovascular Dysfunction**

Constantino Iadecola, MD, Cornell University

11:50 AM–12:50 PM

Lunch available on your own

12:50–2:50 PM

Session 4

12:50–2:50 PM

Session 4 Concurrent A Oral

Inflammation and Immunity, and Cytokines

Grand Ballroom

Moderators:

TBD

Keisa W. Mathis, PhD, University of North Texas

12:50 **Sympathetic Innervation Promotes Bone Marrow Homing of Hypertension-specific CD8+ Effector Memory T Cells** 001

Liang Xiao, Hana A. Itani, Jason D. Foss,
David G. Harrison, Vanderbilt Univ Medical Ctr,
Nashville, TN

1:05 **Neuropilin1: New Splenic Mechanisms Mediating the Guidance of Neural Cues in Immune Cells Relevant for Hypertension** 002

Daniela Carnevale, Sapienza Univ/IRCCS Neuromed,
Pozzilli, Italy; Marialuisa Perrotta, Maria Piacenti,
Roberta Iacobucci, Giuseppe Cifelli, IRCCS
Neuromed, Pozzilli, Italy; Giuseppe Lembo, Sapienza
Univ/IRCCS Neuromed, Pozzilli, Italy

1:20 **Role of Transient Receptor Potential Ankyrin 1 in Monocyte Activation and Hypertensive Kidney Injury** 003

Shuangtao Ma, Michigan State Univ, East
Lansing, MI; Kecheng He, Shujie Wei,

THURSDAY

Program Agenda (continued)

	Chengdu Military General Hosp, Chengdu, China; Peijian Wang, Chengdu Medical Coll, Chengdu, China; Yongjian Yang, Chengdu Military General Hosp, Chengdu, China; Donna H. Wang, Michigan State Univ, East Lansing, MI				
1:35	Plasma Zonulin, Along With a Unique Gut Microbiome Profile, Are Potential Predictors of Systolic Blood Pressure in Humans	004			
	Seungbum Kim, Ruby Goel, Yanfei Qi, Elaine M. Richards, Mohammed Mohammed, Eileen M. Handberg, Carl J. Pepine, Mohan K. Raizada, Univ of Florida, Gainesville, FL				
1:50	Loss of Interleukin 21 Protects Against Hypertension and Associated Inflammation and End Organ Damage	005			
	Bethany L. Dale, Vanderbilt Univ, Dept of Molecular Physiology and Biophysics, Nashville, TN; Arvind Pandey, 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, Vanderbilt Univ, Div of Clinical Pharmacology, Dept of Med, Nashville, TN; Holly Algood, Vanderbilt Univ, Div of Infectious Diseases, Dept of Med, Nashville, TN; Meena Madhur, Vanderbilt Univ, Div of Clinical Pharmacology, Dept of Med, Nashville, TN				
2:05	Hypertension is Accompanied With Over Activity of the Adaptive Immune System	006			
	Tuantuan Zhao, Xiao Z Shen, Zhejiang Univ, Hangzhou, Zhejiang, China; Kenneth E. Bernstein, Cedars-Sinai Medical Ctr, Los Angeles, CA				
2:20	Obstructive Sleep Apnea Induced Hypertension Involves Gut Dysbiosis and Neuroinflammation	007			
	David J. Durgan, Bhanu P. Ganesh, James W. Nelson, Robert M. Bryan, Baylor Coll of Med, Houston, TX				
2:35	Leptin Treatment Attenuates Vascular Dysfunction and Inflammation in Mouse Model(s) of Acquired Lipodystrophy via Reducing Nox1-derived Ros	008			
	Thiago Bruder-Nascimento, Weiqin Chen, David Stepp, Eric J. Belin de Chantemèle, Augusta Univ, Augusta, GA				
			12:50–2:50 PM		
			Session 4 Concurrent B Oral		
			Asian/Pacific Symposium on Cardiovascular Research		
			<i>In collaboration with Japanese Society of Hypertension: Wuhan University School of Medicine and Sun Yat-sen University Zhongshan Medical School, China</i>		
			<i>Seacliff Room</i>		
			Moderators:		
			Sadayoshi Ito, MD, PhD, Tohoku University Graduate School of Medicine		
			Tianxin Yang, MD, PhD, Sun Yat-sen University Zhongshan Medical School		
			12:50 Aldosterone and Hypertension: Role of Mineralocorticoid Receptor-Dependent and Potassium-Dependent Mechanisms		
			Shigeru Shibata, MD, PhD, Teikyo University		
			1:20 DNA Damage Response and Epigenetic Changes in “Cardiometabolic Memory”		
			Kaori Hayashi, MD, PhD, Keio University School of Medicine		
			1:50 The Effect of Natural Compounds on Cardiac Fibrosis		
			Dr. Qizhu Tang, President of Renmin Hospital, Wuhan University		
			2:20 Molecular Mechanisms of Cardiac Hypertrophy		
			Hongliang Li, MD, PhD, Wuhan University		
			12:50–2:50 PM		
			Session 4 Concurrent C Oral		
			Renin Angiotensin System I		
			<i>Pacific L-O</i>		
			Moderators:		
			R. Ariel-Gomez, MD, University of Virginia Medical Center		
			Kate Maude Denton, PhD, Monash University		
			12:50 Mitochondria-targeting Overexpression of AT2 Receptors Inhibits Intracellular Angiotensin II-induced Respiratory and Glycolytic Stress Responses in Mouse Proximal Tubule Cells	009	
			Xiao C Li, Jia L Zhuo, Univ of Mississippi Medical Ctr, Jackson, MS		
			1:05 Renal Proximal Tubule-derived Angiotensin Converting Enzyme 2 (ACE2) in Blood Pressure Regulation	010	
			Zhidan Xiang, Katharine Bendt, Robert Griffiths, Duke Univ Sch of Med, Durham, NC; Jorge F. Giani, Cedars Sinai Medical Ctr, Los Angeles, CA; David I. Ortiz Melo, Susan B. Gurley, Duke Univ Sch of Med, Durham, NC		
			1:20 ACE2 Gene Transfer Ameliorates Dysfunctions in Hematopoietic Stem/Progenitor Cells of Diabetic Patients	011	
			Yagna P. Jarajapu, Shrinidh Joshi, NDSU, Fargo, ND; Julio C. Quiroz-Olvera, Miguel Duran-Mendez, Wendy Cantu-Delgado, Samuel C. Gomez, Museum District Eye Ctr, Houston, TX; Stephen H. Bartelmez, BetaStem		

Program Agenda (continued)

THURSDAY

Therapeutics, Inc., San Francisco, CA;
Mohan K. Raizada, Univ of Florida, Gainesville, FL; Charles Garcia, Univ of Texas Health Science Ctr, Houston, TX

- 1:35 **Vascular Smooth Muscle ADAM17 Contributes to Angiotensin II-induced Abdominal Aortic Aneurysm Formation but Not Hypertension in Mice**
Tatsuo Kawai, Takehiko Takayanagi, Kyle J. Preston, Steven J. Forrester, Rosario Scalia, Victor Rizzo, Satoru Eguchi, Temple Univ Sch of Med, Philadelphia, PA

- 1:50 **The Molecular Program of Renin Null Cells**
Evan Brown, Masafumi Oka, Maria F. Martinez, Silvia Medrano, R. Ariel Gomez, Univ of Virginia, Charlottesville, VA

- 2:05 **B1 Integrin is Essential for Kidney Structure, Function and Vascular Development**
Tahagod Mohamed, Rajwinderjit Kaur, Maria Luisa S. Sequeira-Lopez, Univ of Virginia, Charlottesville, VA

- 2:20 **Ctcf is Required for Renin Expression and Maintenance of the Structural Integrity of the Kidney**
Maria Florencia Martinez, Minghong Li, Silvia Medrano, R. Ariel Gomez, Dept of Pediatrics, Child Health Res Ctr, Univ of Virginia, Sch of Med, Charlottesville, VA

- 2:35 **Combined AT2 Receptor Stimulation/ Receptor Blockade Does Not Cause Renal Dysfunction**
Dhaniel Baraldi, Lucinda M. Hilliard, Tracey A. Gaspari, Kate M. Denton, Robert E. Widdop, Monash Univ, Melbourne, Australia

12:50–2:50 PM

Session 4 Concurrent D

Clinical Practice Clinical Science: What should be the BP goal for most patients with hypertension?
Bayview Room

Moderator:

Dan Levy, MD Journal Editor JASH

- 12:50 **Different BP Goals for Different Patients: Diabetes, Chronic Kidney Disease, Known Cardiovascular Disease**
Allan B. Schwartz, MD, Drexel University

- 1:05 **Goal BP in Uncomplicated Patients Older than 60 Years**
Mark A. Supiano, MD, University of Utah School of Medicine

- 1:20 **Goal BP in Diabetes Mellitus**
William Cushman, MD, VA Medical Center

- 1:35 **Goal BP in Chronic Kidney Disease**
Sandra J. Taler, MD, Mayo Clinic

- 1:50 **Goal BP in Patients with a Recent Cardiovascular Event**
Robert Gillespie, MD, Sharp Memorial Hospital

- 2:05 **SPRINT Challenge Papers: Open Science/ Open Data**
Raymond R. Townsend, MD, University of Pennsylvania
Sanjay Basu, MD, PhD, Stanford University School of Medicine

- 2:25 **Panel Discussion**

Panelists:

Allan B. Schwartz, MD, Drexel University,
Mark A. Supiano, MD, University of Utah School of Medicine
William Cushman, MD, VA Medical Center,
Sandra J Taler, MD, Mayo Clinic,
Robert Gillespie, MD, Sharp Memorial Hospital
Raymond R. Townsend, MD, University of Pennsylvania
Sanjay Basu, MD, PhD, Stanford University School of Medicine

- 014 2:50–3:05 PM
Refreshment Break and Exhibits
Grand Ballroom Foyer

3:05–5:05 PM

Session 5

015

3:05–5:05 PM

Session 5 Concurrent A Oral

Obesity and Diabetes I

Grand Ballroom

Moderators:

Amy Christine Arnold, PhD,
Pennsylvania State College of Medicine
Eric J. Belin de Chantemele, PhD, Georgia Regents University

016

- 3:05 **Mitoprotection Attenuates Myocardial Vascular Impairment and Decreases Coronary Retention of Endothelial Progenitor Cells in Swine Metabolic Syndrome**
Fang Yuan, Henan Provincial People's Hosp, Henan, China; Ahmad F. Hedayat, Christopher M. Ferguson, Hui Tang, Amir Lerman, Lilach O. Lerman, Alfonso Eirin, Mayo Clinic, Rochester, MN

- 3:20 **Neuronal (Pro)renin Receptor Deletion Prevents High-fat Diet Induced High Blood Pressure and Type II Diabetes**
Caleb J. Worker, Univ of Nevada, Reno Medical, Reno, NV; Wencheng Li, Wake Forest Univ, Winston-Salem, NC; Yumei Feng, Univ of Nevada, Reno, Reno, NV

- 3:35 **Effect of CPAP on Blood Pressure and Central Sympathetic Outflow in Diabetic Patients with OSA, Resistant HTN, and CKD**
Marcel Ruzicka, Swapnil Hiremath, Ottawa Hosp, Ottawa, ON, Canada; Frans H. H. Leenens, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Judith Leech, Shawn Aaron, Ottawa Hosp, Ottawa, ON, Canada

017

018

019

Program Agenda (continued)

3:50	Heterozygote Knockout of TMEM16B in Intestinal Vagal Afferents Causes Cholecystokinin Insensitivity and Obesity in Male but Not Female Mice Runping Wang, Yongjun Lu, Michael Z. Cicha, Christopher J. Benson, Mark W. Chapleau, Francois M. Abboud, Univ of Iowa, Iowa City, IA	020	3:35	ProANP 31-67 and Renal Function in Heart Failure Robin A. Felder, Peng Xu, Katie Schiermeyer, John J. Gildea, The Univ of Virginia, Charlottesville, VA; T. R. Geimer, Larry Mahan, Madeleine Pharmaceuticals, Madison, WI	027
4:05	Role of Central Nervous System Suppressor of Cytokine Signaling 3 (socs3) in Regulating Metabolic and Cardiovascular Function in Obesity Jussara M. do Carmo, John Nathan Freeman, Alexandre A. da Silva, Sydney P. Moak, John E. Hall, UMC, Jackson, MS	021	3:50	Endothelial Nogo-B Controls Sphingolipid de novo Biosynthesis to Impact Coronary Artery Atherosclerosis Yi Zhang, Linda Sasset, Ren Xu, Matthew Blake Greenblatt, Annarita Di Lorenzo, Weill Cornell Medical Coll, New York, NY	028
4:20	mTORC1 is Required for the Cardiovascular but Not the Metabolic Actions of Leptin Balyssa Bell, Donald Morgan, Kamal Rahmouni, Univ of Iowa, Iowa City, IA	022	4:05	Nox5 is a Pro-contractile Nox Isoform – Implications in Vascular Contraction and Cardiac Fibrosis Augusto C. Montezano, Livia L. Camargo, Adam P. Harvey, Francisco J. Rios, ICAMS-Univ of Glasgow, Glasgow, United Kingdom; Chet E. Holterman, Christopher R. Kennedy, OHRI-Univ of Ottawa, Ottawa, ON, Canada; Rhian M. Touyz, ICAMS-Univ of Glasgow, Glasgow, United Kingdom	029
4:35	Inducible Deletion of Adipocyte Prorenin Receptor Reverses Obesity Related Hypertension Eva Gatineau, Dianne Cohn, Ming Gong, Frédérique Yiannikouris, Univ of Kentucky, Lexington, KY	023	4:20	Angiotensin II-induced Hypertension and Cardiac Hypertrophy are Mediated Differentially by TLR3- and TLR4-dependent Pathways Madhu V. Singh, Michael Z. Cicha, Mark W. Chapleau, François M. Abboud, Univ of Iowa, Iowa City, IA	030
4:50	Angiotensin-(1-7) Attenuates Diet-induced Obesity in Mice by Browning White Adipose Tissue to Enhance Energy Expenditure Traci A. Czyzyk, Timothy K. Cooper, Sarah S. Bingaman, Amy C. Arnold, Penn State Coll of Med, Hershey, PA	024	4:35	Diastolic Blood Pressure, Coronary Artery Calcium, and Cardiac Outcomes in the Multi-ethnic Study of Atherosclerosis John W. McEvoy, Faisal Rahman, Mahmoud Al Rifai, Michael Blaha, Khurram Nasir, Johns Hopkins Univ SOM, Baltimore, MD; Matthew Budoff, UCLA, Los Angeles, CA; Bruce Psaty, Depts of Med, Epidemiology and Health Services, Univ of Washington, Seattle, WA; Wendy Post, Roger Blumenthal, Johns Hopkins Univ SOM, Baltimore, MD	031
3:05–5:05 PM Session 5 Concurrent B Oral Cardiac Hypertrophy and Dysfunction <i>Seacliff Room</i> Moderator: Augusto C. Montezano, PhD, University of Glasgow					
3:05	Lacking of Gamma Delta T Cells Exaggerate Cardiac Dysfunction in Angiotensin II-induced Hypertension in Balb/cByJ Mice Tang-Dong Liao, Jiang Xu, Oscar A. Carretero, Henry Ford Hosp, Detroit, MI	025	4:50	Acute Inhibition of HDACs After MI Leads to Suppression of Angiogenesis Sudhakar-Veeranki, Suresh C. Tyagi, Univ of Louisville, Louisville, KY	032
3:20	Early-onset Preeclampsia is Associated With Left Ventricular Concentric Remodeling at 1-month Post-partum Follow-up GianLuca Colussi, Cristiana Catena, Div of Internal Med, Dept of Med, Univ of Udine, Udine, Italy; Lorenza Driul, Div of Obstetrics and Gynecology, Dept of Med, Univ of Udine, Udine, Italy; Francesca Pezzutto, Valentina Fagotto, Leonardo A Sechi, Div of Internal Med, Dept of Med, Univ of Udine, Udine, Italy	026			

THURSDAY

Program Agenda (continued)

THURSDAY/FRIDAY

3:05–5:05 PM

Session 5 Concurrent C Oral Pregnancy and Preeclampsia

Pacific L-O

Moderators:

Nobuyuki Takashi, MD, PhD, Tohoku University
Eric George, PhD, University of Mississippi Medical Center

3:05 Depressor Mechanisms of Nicotinamide 033 in a Murine Model of Preeclampsia

Tomofumi Fushima, Hiroshi Sato, Sadayoshi Ito, Nobuyuki Takahashi, Tohoku Univ, Sendai, Japan

3:20 Remote Patient Monitoring for Postpartum 034 Hypertension: A Pilot Study

Kara K. Hoppe, Julia B. Zella, Univ of Wisconsin-Madison, Madison, WI; Nicole A. Thomas, UnityPoint Health-Meriter, Madison, WI; Heather M. Johnson, Univ of Wisconsin-Madison, Madison, WI

3:35 Fetal Growth Restriction is Associated 035 with Spontaneous Gestational Hypertension in African Green Monkeys

Chelsea C. Weaver, Univ of Kentucky, Lexington, KY; Justin L. Grobe, Mark K. Santillan, Univ of Iowa, Iowa City, IA; Jeffrey L. Osborn, Univ of Kentucky, Lexington, KY

3:50 Regulation of sFlt-1 Splicing by U2AF 036 and JMJD

Adrian C. Eddy, Heather Chapman, Eric M. George, Univ of MS Medical Ctr, Jackson, MS

4:05 Exaggerated Placental Ischemia-induced 037 Hypertension in Endothelin Receptor Type B (ETB)-deficient Pregnant Rats s Independent of Increased sFlt-1 or ROS Levels

Frank T. Spradley, U of Mississippi Medical Ctr, Jackson, MS

4:20 MiR-210 Overexpression Induces 038 sFlt1 Production and Contributes to Preeclampsia-like Symptoms in Pregnant Mice

Valorie L. Chiasson, Kelsey R. Bounds, Lu J. Pan, Rachel M. Engelbrecht, Baylor Scott & White HL, Temple, TX; Piyali Chatterjee, Baylor Scott & White HL/Texas A&M HSC, Temple, TX

4:35 Blockade of Macula Densa NOS1 039 Decreases GFR and Promotes the Development of Hypertension During Pregnancy

Jin Wei, Jie Zhang, Univ of South Florida, Tampa, FL; Suttira Intapad, Tulane Univ Sch of Med, New Orleans, LA; Lei Wang, Shan Jiang, Univ of South Florida, Tampa, FL; Joey Granger, Univ of Mississippi Medical Ctr, Jackson, MS; Ruisheng Liu, Univ of South Florida, Tampa, FL

4:50 Low Soluble Fms-like Tyrosine Kinase-1, 040 Endoglin, and Endothelin-1 Levels in Women With Confirmed or Suspected Preeclampsia Using Proton Pump Inhibitors

Alexander H. Danser, Langeza Saleh, Willy Visser, Anton H. van den Meiracker, ERASMUS MC, Rotterdam, Netherlands

3:05–5:30 PM

Session 5 Concurrent D Clinical Practice Clinical Science: Refractory vs. Resistant Hypertension *Bayview Room*

Moderator:

David Ellison, MD, University of Oregon Health Sciences University

3:05 Resistant Hypertension: The State of the 040 Art in 2017

Robert M. Carey, MD, MACP, FAHA, FRCPI, University of Virginia Health System

3:35 Differential Diagnosis and Evaluation 040 David Calhoun, MD, University of Alabama at Birmingham

3:55 Clinical Trials in Resistant Hypertension 040 (Renal Denervation, Baroreflex Stimulation, etc.) John Bisognano, MD, PhD, University of Rochester Medical Center

4:25 Recent Data Regarding Outcomes in Patients 040 with Resistant Hypertension Brent Egan, MD, Medical University of South Carolina

4:45 Panel Discussion with Q & A

Panelists:

Robert Carey, MD, MACP, FAHA, FRCPI, University of Virginia Health System
David Calhoun, MD, University of Alabama at Birmingham
Brent Egan, MD, Medical University of South Carolina
John Bisognano, MD, PhD, University of Rochester Medical Center

5:30–7:30 PM

Poster Session 1 Trainee Onsite Poster Competition with Reception *Pacific A-K*

Posters P100-P253 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 40 for details.

FRIDAY, SEPTEMBER 15

7:00 AM

Registration/Information Desk Opens

7:00 AM

Exhibits and Coffee *Grand Ballroom Foyer*

Program Agenda (continued)

8:00–9:00 AM

Session 6 Debate

**Dietary Salt Recommendations:
Are the AHA Guidelines Appropriate?**

Grand Ballroom

Moderator:

S. Ananth Karumanchi, MD, Consulting Editor
of *Hypertension*

Pro:

Lawrence Appel, MD, Johns Hopkins University

Con:

Michael Alderman, MD, Albert Einstein College of Medicine

9:00–9:40 AM

Session 7

Hot Topics in Hypertension

Grand Ballroom

Moderator:

Gregory Fink, PhD, Associate Editor of *Hypertension*

9:00 **Is Hypertension a Bone Marrow Disease?**

David G. Harrison, MD, Vanderbilt University
Medical Center

9:20 **The Role of the Adducin Gene in Hypertension-
induced Renal Injury**

Richard J. Roman, PhD, University of Mississippi
Medical Center

9:40–10:10 AM

Refreshment Break and Exhibits

Grand Ballroom Foyer

10:10–11:00 AM

Session 8

Women's Health

Grand Ballroom

Moderator:

Garry Jennings, MD, Associate Editor of *Hypertension*

10:10 **Preeclampsia is a Major Longterm Risk Factor
for CV Disease**

Ananth Karumanchi, MD, Harvard University

10:30 **Sex Differences in Hypertension Treatment:
When Should We Approach Women Differently
than Men?**

Karen Margolis, MD, HealthPartners Institute

11:00–11:40 AM

Session 9

The Brain and Hypertension

Grand Ballroom

Moderator:

David Harrison, MD, Associate Editor of *Hypertension*

11:00 **Gut Microbiome and the Brain**

Mohan K. Raizada, PhD, University of Florida,
College of Medicine

11:20 **Arousal from Sleep and Sympathetic Excitation
During Wakefulness**

John S. Floras, MD, University of Toronto

11:40 AM–12:40 PM

Lunch on your own

12:40–2:10 PM

Poster Session 2

Pacific A-K

Posters P254-P297 will be presented during this session as part of the on-site poster competition. All presenters who have not received a travel award are eligible for the competition.

Posters P298-P408 will be presented during this session. See pages 40 for details.

12:40–2:40 PM

Session 10 Concurrent D

Primary Care Track:

Adult and Pediatric Guidelines for Hypertension

Bayview Room

Moderator:

Jan Basile, MD, Medical University of South Carolina

12:40 **Adult Guidelines: What Would the JNC 8 Panel
Say if it Were Written Today**

Raymond Townsend, MD, University of Pennsylvania

1:10 **Adult Guidelines: A View from the Trenches**

Steven A. Yarows, MD, FACP, FASH, University of
Michigan Health Systems

1:20 **Pediatric Guidelines: What's New, What's Old**

Joshua Samuels, MD, MPH, University of Texas
Health Science Center

1:50 **Pediatric Guidelines: A View from the Trenches**

David Kaelber, MD, PhD, MPH, MS, Case Western
Reserve University, School of Medicine

2:00 **Panel Discussion with Q & A**

Panelists:

Raymond Townsend, MD, FAHA,
University of Pennsylvania

Steven A. Yarows, MD, FACP, FASH, University of
Michigan Health Systems

Joshua Samuels, MD, MPH, UT Health
Science Center

David Kaelber, MD, PhD, MPH, MS, Case Western
Reserve University, School of Medicine

2:10–2:40 PM

Session 10

The Arthur C. Cochran Memorial Lecture

Grand Ballroom

Moderators:

Karen Griffin, MD, FAHA, Loyola University of Chicago
Joey Granger, PhD, FAHA, University of Mississippi
Medical Center,

FRIDAY

Program Agenda (continued)

2:10 **Inflammatory Dysregulation in Hypertension – From Novel Mechanisms to Therapeutic Targeting**
Tomasz J. Guzik, MD, PhD, University of Glasgow

2:40–3:00 PM

Refreshment Break and Exhibits

Grand Ballroom Foyer

3:00–4:30 PM

Session 11

3:00–4:30 PM

Session 11 Concurrent A Oral

Gender Differences and Sex Hormones

Grand Ballroom

Moderators:

Jennifer C. Sullivan, PhD, Augusta University

Jane F. Reckelhoff, PhD, University of Mississippi Medical Center

3:00 **New Evidence for G Protein-coupled Estrogen Receptor as a Natriuretic Factor** 041

Eman Y. Gohar, Ijeoma E Obi, Carmen De Miguel, Jennifer S Pollock, David M. Pollock, Univ of Alabama at Birmingham, Birmingham, AL

3:15 **Evidence of Angiotensin II (AngII)-dependent Obesity-induced Hypertension in Female Mice Exposed to Postnatal Neglect** 042

Kierrriel Mitchell, Dianne Cohn, Univ of Kentucky, Lexington, KY; Analia S. Loria, Univ of Kentucky, Lexington, KY

3:30 **Influence of Sex, Hormones and Age on Cerebrovascular Function: Role of Large Conductance Potassium Channel Subunits** 043

Mallikarjuna R. Pabbidi, Maniselman Kuppasamy, Tanya Pareek, Barbara T. Alexander, Ashley D. Newsome, UMMC, Jackson, MS

3:45 **Sex Differences in Relative Contributions of Hemodynamic Parameters to Blood Pressure: A Population-based Study of Adolescents and Middle-aged Adults** 044

Catriona A. Syme, Jean Shin, The Hosp for Sick Children, Toronto, ON, Canada; Michal Abrahamowicz, Gabriel Leonard, McGill Univ, Montreal, QC, Canada; Michel Perron, Louis Richer, Suzanne Veillette, Univ du Québec à Chicoutimi, Chicoutimi, QC, Canada; Daniel Gaudet, Univ de Montréal, Chicoutimi, QC, Canada; Tomas Paus, Rotman Res Inst, Toronto, ON, Canada; Zdenka Pausova, The Hosp for Sick Children, Toronto, ON, Canada

4:00 **The Enhanced Pressor Response to AngII in Aged Females is Attenuated by Estrogen Replacement via an AT₂R-mediated Mechanism** 045

Giannie Barsha, Katrina M Mirabito Colafella, Tracey Gaspari, Iresha Spizzo, Lucinda M Hilliard, Robert E Widdop, Chrisan S Samuel, Kate M Denton, Monash Univ, Melbourne, Australia

4:15 **Chronic Estrogen Replacement Prevents the Increase in Blood Pressure in Female IUGR Offspring at 12 Months of Age** 046

Gwendolyn K. Davis, Ashley D. Newsome, Norma B. Ojeda, Barbara T. Alexander, Univ of MS Medical Ctr, Jackson, MS

3:00–4:30 PM

Session 11 Concurrent B Oral

Hypertension Early Career Oral Awards Session

Seacliff Room

Moderators:

Augusto C. Montezano, PhD, University of Glasgow

Brandi M. Wynne, PhD, Emory School of Medicine

3:00 **Clinical Outcomes by Race and Ethnicity in the Systolic Blood Pressure Intervention Trials (SPRINT): A Randomized Control Trial** 047

Carolyn H. Still, Case Western Reserve Univ, FPB Sch of Nursing, Cleveland, OH; Carlos J. Rodriguez, Wake Forest Sch of Med, Winston-Salem, NC; Jackson T. Wright Jr., Case Western Reserve Univ, Sch of Med, Cleveland, OH; Timothy E. Craven, Wake Forest Sch of Med, Winston-Salem, NC; Adam P. Bress, Univ of Utah, Sch of Med, Div of Health System Innovation and Res, Dept of Public Health Sciences, Salt Lake City, UT; Glenn M. Chertow, Stanford Univ Sch of Med, Div of Nephrology, Palo Alto, CA; Paul K Whelton, Tulane Univ Sch of Public Health and Tropical Med, New Orleans, LA; Jeffrey C Whittle, Dept of Med, Medical Coll of Wisconsin, Milwaukee and Primary Care, Clememt J. Zablocki Veterans Affairs Medical Ctr, Milwaukee, WI; Barry I. Freeman, Wake Forest Sch of Med, Winston-Salem, NC; Karen C. Johnson, Dept of Preventive Med, Univ of Tennessee Health Science Ctr, Memphis, TN; Capri G. Foy, Wake Forest Sch of Med, Dept of Social Science and Health Policy, Winston-Salem, NC; Jiang He MD, Dept of Epidemiology, Tulane Univ Sch of Public Health and Tropical Med, New Orleans, LA; John B. Kostis, Cardiovascular Inst, Rutgers Robert Wood Johnson Medical Sch, New Brunswick, NJ; Jame P. Lash, Dept of Med, Univ of Illinois Chicago, Chicago, IL; Carolyn F Pedley, Wake Forest Baptist Health, Winston-Salem, NC; Roberto Pisoni, Dept of Med, Univ of South Carolina, Charleston, SC; James R. Powell, Div of Med, Brody Sch of Med, East Carolina Univ, Greenville, NC; Barry M. Wall, Memphis Veterans Affairs Medical Ctr, Memphis, TN

3:15 **Systolic and Diastolic Ambulatory Blood Pressure Affect Target Organ Damage Differently in Adolescents: The SHIP AHOY Study** 048

Gilad Hamdani, Elaine M. Urbina, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH; Marc Lande, Univ of Rochester Medical Ctr, Rochester, NY; Kevin Meyers, Children's Hosp

FRIDAY

Program Agenda (continued)

	of Philadelphia, Philadelphia, PA; Joshua Samuels, Univ of Texas Health Sciences Ctr, Houston, TX; Joseph T. Flynn, Seattle Children's Hosp, Seattle, WA		of Turin, Turin, Italy; Elise P Gomez-Sanchez, Celso E. Gomez-Sanchez, Univ of Mississippi Medical Ctr, Jackson, MS	
3:30	Prevention of Glomerular Hyperfiltration by Enhancement of Tubuloglomerular Feedback Response Induces Hypertension and Exacerbates Diabetic Kidney Injury Jie Zhang, Jin Wei, Shan Jiang, Lei Wang, Shaohui Wang, Ruisheng Liu, The Univ of South Florida, Tampa, FL	049	3:30 Systemic Effect of Ren11β-HSD2 Deficiency on Blood Pressure Regulation Kohei Ueda, Mitsuhiro Nishimoto, Daigoro Hirohama, Nobuhiro Ayuzawa, Wakako Kawarazaki, Atsushi Watanabe, RCAST, The Univ of Tokyo, Tokyo, Japan; Tatsuo Shimosawa, Dept of Clinical Lab, Intl Univ of Health and Welfare, Sch of Med, Tokyo, Japan; Johannes Loffing, Natl Ctr of Competence in Res 'Kidney Control of Homeostasis', Zurich, Switzerland; Ming-Zhi Zhang, Vanderbilt Univ Sch of Med, Nashville, TN; Takeshi Marumo, Toshiro Fujita, RCAST, The Univ of Tokyo, Tokyo, Japan	055
3:45	TLR4 Antagonism Prevents Early Left Ventricular Hypertrophy and Dysfunction Associated With Neonatal Hyperoxia Exposure Muhammad Oneeb Rehman Mian, Ying He, Rafael Fernandes, Mariane Bertagnolli, Anik Cloutier, Thuy Mai Luu, Anne Monique Nuyt, CHU Sainte-Justine, Montreal, QC, Canada	050	3:45 Differential Roles of GRK2 and GRK5 in Cardiac Aldosterone Signaling Suggest GRK5-Mediated Cardio-protection Against Mineralocorticoids Anastasios Lymperopoulos, Katie A. McCrink, Ava Brill, Jennifer Maning, Victoria L. Desimine, Beatrix Aukshi, Nova Southeastern Univ, Fort Lauderdale, FL	056
4:00	Influence of Sex and Obesity on the Effect of Preterm Birth on the Renin-angiotensin System in Adolescents Andrew Michael South, Patricia A. Nixon, Mark C. Chappell, Debra I. Diz, Gregory B. Russell, Elizabeth T. Jensen, Hossam A. Shaltout, Lisa K. Washburn, Wake Forest Sch of Med, Winston Salem, NC	051	4:00 Cellular and Genetic Causes of Idiopathic Hyperaldosteronism Kei Omata, Univ of Michigan, Ann Arbor, MI; Fumitoshi Satoh, Ryo Morimoto, Sadayoshi Ito, Yuto Yamazaki, Tohoku Univ, Sendai, Japan; Yasuhiro Nakamura, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Sharath Anand, Univ of Michigan, Ann Arbor, MI; Zeng Guo, Michael Stowasser, Univ of Queensland Diamantina Inst, Brisbane, Australia; Hironobu Sasano, Tohoku Univ, Sendai, Japan; Scott Tomlins, William Rainey, Univ of Michigan, Ann Arbor, MI	057
4:15	Chronic Angiotensin Type 2 Receptor Stimulation Abolishes the Sex-difference in Ang II-induced Hypertension Katrina M. Mirabito Colafella, Lucinda M. Hilliard, Monash Univ, Melbourne, Australia; Donna L. Ralph, Jasmine S. Manwani, Keck Sch of Med of USC, Los Angeles, CA; Tracey Gaspari, Robert E. Widdop, Monash Univ, Melbourne, Australia; Thomas Unger, CARIM, Maastricht Univ, Maastricht, Netherlands; U. Muscha Steckelings, Univ of Southern Denmark, Odense, Denmark; Kate M. Denton, Monash Univ, Melbourne, Australia	052	4:15 Deoxycorticosterone-induced Hypertension Caused by Fluconazole Matthew Hakimi, Sandeep Krishnan, O'Neil Mason, Joshua Trabulus, Phillip Zakowski, Cedars Sinai Medical Ctr, Los Angeles, CA; Michael McPhaul, Quest Labs, San Juan Capistrano, CA; Richard Auchus, Univ of Michigan, Ann Arbor, MI; Ronald G. Victor, Cedars Sinai Medical Ctr, Los Angeles, CA	058
3:00–4:30 PM Session 11 Concurrent C Oral Aldosterone, Its Receptors and Other Hormones <i>Pacific L-O</i> Moderators: Toshiro Fujita, MD, PhD, University of Tokyo Anne Dorrance, BS, PhD, FAHA, Michigan State University				
3:00	Urinary Extracellular Messenger RNA Transcripts as Biomarkers of Mineralocorticoid Receptor Activity J. Brian Byrd, Brian G. Bazzell, William E. Rainey, Richard J. Auchus, Scott L. Hummel, Univ of Michigan, Ann Arbor, MI	053	3:00–5:30 PM Session 11 Concurrent D Primary Care Track: Improving BP Control Rates <i>Bayview Room</i> Moderator: Michael J. Bloch, MD, University of Nevada School of Medicine	
3:15	Visinin Like Protein 1 Regulation of Aldosterone Biosynthesis Maniselvan Kuppusamy, Jeanne Ishimwe, Univ of Mississippi Medical Ctr, Jackson, MS; Tracy A. Williams, Paolo Mulatero, Univ	054		

Program Agenda (continued)

The Importance of BP Measurement

- 3:00 **In Office**
Brent Egan, MD, Medical University of South Carolina
- 3:20 **At Home**
F. Wilford Germino, MD, Orland Primary Care Specialist
- 3:40 **24-Hour ABPM**
Daichi Shimbo, MD, Columbia University Medical Center

The Importance of Lifestyle Modification

- 4:00 **The DASH Diet 20 Years Later**
Laura Svetkey, MD, MHS, Duke University Medical Center
- 4:15 **The Mediterranean Diet-Why and How to Implement**
Louis Kuritzky, MD, University of Florida College of Medicine
- 4:30 **Building an Effective Team — The Kaiser Permanente Approach**
Joseph D. Young, MD, Kaiser Permanente
- 4:50 **Panel Discussion with Q & A**
Panelists:
Brent Egan, MD, Medical University of South Carolina
F. Wilford Germino, MD, Orland Primary Care Specialists
Daichi Shimbo, MD, Columbia University Medical Center
Laura Svetkey, MD, MHS, Duke University Medical Center
Louis Kuritzky, MD, University of Florida College of Medicine
Joseph D. Young, MD, Kaiser Permanente

5:30 PM

Session 11 Concurrent D – Adjourn

4:30–5:20 PM

Session 12
Awards Session
Grand Ballroom

Moderators:

Karen Griffin, MD, FAHA, Loyola University of Chicago
Joey Granger, PhD, FAHA, University of Mississippi Medical Center,

- 4:30 **Mid-Career Award for Research Excellence**
Essential Role of Kir4.1/Kir5.1 Channels in Renal Salt Handling and Blood Pressure Control
Alexander Staruschenko, PhD, Medical College of Wisconsin
- 4:50 **Harry Goldblatt New Investigator Award**
Heme Redox Switches and Blood Pressure Control
Adam C. Straub, PhD, University of Pittsburgh
- 5:05 **British Hypertension Society**
Young Investigator Award
A Novel Mechanism for Buffering Dietary Salt in Humans: Effects of Salt Loading on Skin Sodium, VEGF-C and Blood Pressure
Dr. Viknesh Selvarajah, Addenbrookes Hospital, Cambridge, United Kingdom

- 5:20 **High Blood Pressure Research**
Council of Australia Award
Importance of Lymphocytes, Estrogen and the G Protein Coupled Estrogen Receptor 1 in Aldosterone/Salt-Induced Hypertension
Quynh Nhu Dinh, BBiomedSc (Hons), La Trobe University, Melbourne, Australia

5:35 PM

Session 12 Awards Session – Adjourn

7:00–11:00 PM

Trainee Advocacy Mixer
Garden Room

SATURDAY, SEPTEMBER 16

6:00 AM

Registration/Information Desk Opens

6:00 AM

Exhibits and Coffee
Grand Ballroom Foyer

7:00–9:30 AM

Session 13 Concurrent D
Primary Care Track: Treating Co-morbidities In Those with Hypertension
Bayview Room

Moderator:

John Bisognano, MD, PhD, President, American Society of Hypertension

- 7:00 **Stroke-Preventing the First, Preventing Recurrent: Which Agent(s), What Target BP**
Philip Gorelick, MD, Michigan State University College of Human Medicine
- 7:20 **Sleep Apnea: When to Evaluate, What to Do.**
Patrick J. Strollo, Jr., MD, University of Pittsburgh School of Medicine
- 7:40 **Chronic Kidney Disease: When Should You Refer and With What Workup**
Debbie Cohen, MD, University of Pennsylvania
- 8:00 **Diabetes-Does the Presence of CVD and Hypertension Influence Treatment?**
Robert Chilton, MD, University of Texas Health Science Center
- 8:20 **Hyperkalemia**
George Bakris, MD, The University of Chicago
- 8:40 **Panel Discussion with Q & A**
Panelists:
Philip Gorelick, MD, Michigan State University College of Human Medicine
Patrick J. Strollo, Jr., MD, University of Pittsburgh School of Medicine
Debbie Cohen, MD, University of Pennsylvania
Robert Chilton, MD, University of Texas Health Science Center
George Bakris, MD, The University of Chicago

Program Agenda (continued)

7:30–8:00 AM

Session 13

The Donald Seldin Award Lecture

Grand Ballroom A

Moderators:

Núria M. Pastor-Soler, MD, PhD, FASN, University of Southern California Keck School of Medicine

Vivek Bhalla, MD, FASN, FAHA, Stanford University

- 7:30 **The Donald Seldin Award Lecture**
Collecting Duct Endothelin: Why it Matters in Health, Hypertension and Kidney Disease
 Donald Kohan, MD, PhD, University of Utah Health Sciences Center

8:00–9:30 PM

Session 13

8:00–9:30 AM

Session 13 Concurrent A Oral
Vascular Biology and Dysfunction

Grand Ballroom A

Moderators:

Tomasz J. Guzik, MD, PhD, University of Glasgow

Daniela Carnevale, PhD, Sapienza University of Rome

- 8:00 **miR-29 is Required for Normal Endothelium-dependent Vasodilation and Protects Against Hypertension**
 David M. Jensen, Michael E. Widlansky, Mingyu Liang, Jingli Wang, Yong Liu, Aaron Geurts, Alison Kriegel, Pengyuan Liu, Rong Ying, Mobin Malik, Amberly Branum, Michael J. Tanner, Kristie Usa, Marc Casati, Guangyuan Zhang, Chen Chu, Medical Coll of Wisconsin, Milwaukee, WI
- 8:15 **Role of Mir-214 in the Regulation of Perivascular Fibrosis in Angiotensin II Induced Hypertension**
 Ryszard Nosalski, Jagiellonian Univ Collegium Medicum, Krakow, Poland; Mateusz Siedliński, Mateusz Siedliński, Krakow, Poland; Aurelie Nguyen Dinh Cat, Cordeliers Res Ctr, INSERM, Paris, France; Dominik Skiba, Eilidh McGinnigle, Univ of Glasgow, Glasgow, United Kingdom; Andrew Baker, Laura Denby, Univ of Edinburgh, Edinburgh, United Kingdom; Tomasz J. Guzik, Univ of Glasgow, Glasgow, United Kingdom
- 8:30 **Loss of Lymphocyte Adaptor Protein LNK Promotes Acute Aortic Dissection**
 Fanny C. Laroumanie, Vanderbilt Univ Medical Ctr, Nashville, TN; Mohamed A. Saleh, Dept of Pharmacology and Toxicology, Mansoura University, Egypt; Bethany L. Dale, Vanderbilt Univ Medical Ctr, Nashville, TN; Kyle A. Gavulic, Vanderbilt Univ, Nashville, TN; William G. McMaster, Meena S. Madhur, Vanderbilt Univ Medical Ctr, Nashville, TN

- 8:45 **Vascular Dysfunction and Hypertension are Prevented by a Novel PPAR γ Target Gene, RhoBTB1** 062

Masashi Mukohda, Stella-Rita C. Ibeawuchi, Chunyan Hu, Ko-Ting Lu, Anand R. Nair, Larry N. Agbor, Jing Wu, Frederick W. Quelle, Curt D. Sigmund, Univ of Iowa, Iowa City, IA

- 9:00 **Mechanical Stretch on Endothelial Cells Promotes Monocyte Activation and Differentiation into Immunogenic Dendritic Cells via STAT3** 063

Roxana Loperena, Hana A. Itani, Jose A. Gomez, Noah Engel, Annet Kirabo, David G. Harrison, Vanderbilt Univ, Nashville, TN

- 9:15 **Transactivation of Egfr by Tgf β Induces Hypertension by Increasing Arteriolar Myogenic Response** 064

Daniela Carnevale, Sapienza Univ/IRCCS Neuromed, Pozzilli, Italy; Manuel Casaburo, Stefania Fardella, Giuseppe Cifelli, Gualtiero Innocenzi, IRCCS Neuromed, Pozzilli, Italy; Giorgio Bressan, Univ of Padova, Pozzilli, Italy; Giuseppe Lembo, Sapienza Univ/IRCCS Neuromed, Pozzilli, Italy

8:00–9:30 AM

Session 13 Concurrent B Oral

Renal Vascular Function in Health and Disease
Seacliff Room

Moderators:

Alexander Staruschenko, PhD, Medical College of Wisconsin

Ruisheng Liu, MD, PhD, University of South Florida

- 8:00 **Induction of Human Endothelin-1 Overexpression for 3 Months Causes Blood Pressure Rise and Renal Injury** 065

Pierre Paradis, Suellen C. Coelho, Olga Berillo, Sofiane Ouerd, Júlio C. Fraulob-Aquino, Antoine Caillon, Tlili Barhoumi, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Stefan Offermanns, Max-Planck-Inst for Heart and Lung Res, Bad Nauheim, Germany; Ernesto L. Schiffrin, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada

- 8:15 **Regulation of Nephron Afferent Arteriole Resistance in Obesity: Role of Insulin and Connecting Tubule Glomerular Feedback** 066

Sumit R. Monu, Yilin Ren, Mani Maheshwari, Ed Peterson, Oscar A Carretero, Henry Ford Health System, Detroit, MI

- 8:30 **Genetic Complementation Establishes That a K572Q Mutation in Gamma-adducin Plays a Causal Role in Renal Microvascular Dysfunction in FHH and MNS Rats** 067

Chao Zhang, Ying Ge, Paige N. Mims, Fan Fan, Richard J. Roman, Univ of Mississippi Medical Ctr, Jackson, MS

SATURDAY

Program Agenda (continued)

SATURDAY

- 8:45 **Impact of Renal Outer Medullary Potassium Channel Inhibition on Afferent Arteriolar Tone in Rats With Type 1 Diabetes**
Pamela K. Carmines, Univ of Nebraska Medical Ctr, Omaha, NE; Xiaoyan Zhou, Maya Dajee, Kathleen A. Sullivan, Shawn P. Walsh, Alexander Pasternak, Merck & Co, Inc., Kenilworth, NJ

- 9:00 **Increased Stretch-induced O₂- Production in Dahl Salt-sensitive Rats is Mediated by TRPV4**
Fara Saez, Nancy J. Hong, Jeffrey L. Garvin, Case Western Reserve Univ, Cleveland, OH

- 9:15 **Canonical Wnt Signaling Mediates Enhanced Renal Afferent Arteriolar Reactive Oxygen Species and Contractility in Diabetic Mice**
En Yin Lai, Dept of Physiology, Zhejiang Univ Sch of Med, Div of Nephrology and Hypertension, and Hypertension Ctr, Georgetown Univ, Washington, DC; Suping Zhang, Qian Huang, Qiaoling Wang, Liang Zhao, Dept of Physiology, Zhejiang Univ Sch of Med, Hangzhou, China; Andreas Patzak, Inst of Vegetative Physiology, Charité-Universmedizin Berlin, Berlin, Germany; Lingli Li, Christopher S. Wilcox, Div of Nephrology and Hypertension, and Hypertension Ctr, Georgetown Univ, Washington, DC

8:00–9:30 AM

Session 13 Concurrent C Oral

Hypertension Clinical-Pathological Conference
Pacific L-O

Chairpersons:

Anna F. Dominiczak, MD, University of Glasgow
Rhian M. Touyz, MD, PhD, University of Glasgow
Suzanne Oparil, MD, University of Alabama at Birmingham

- 8:00 **Case I: Severe Hypertension and Nephrotic Range Proteinuria**
Michael Burszty, MD, Hadassah-Hebrew University Medical Center

- 8:45 **Case II: Case of Refractory Hypertension: Controlled after Aortic, Mitral Valve Replacement and Coronary Artery Bypass Grafting**
Mohammed Siddiqui, MD, David A. Calhoun, MD, University of Alabama at Birmingham

9:30–10:00 AM

Refreshment Break and Exhibits

Grand Ballroom Foyer

10:00–11:00 AM

Session 14 Concurrent D

Primary Care Track:

Common Conundrums in Treating Hypertension and Three Unknown
Bayview Room

Moderator:

Shawna Nesbitt, MD, University of Texas Southwestern

- 068 10:00 **Using Diuretics Alone and In Combination**
Angela Brown, MD, Washington University

- 10:20 **Using Adrenergic Blockers Wisely**
Ronald G. Victor, MD, Cedars-Sinai Heart Institute

- 10:40 **Evaluating and Treating Orthostatic Hypotension**
Dominic Sica, MD, Virginia Commonwealth University Health System

11:00 AM–12:00 PM

Session 14 Concurrent D

Primary Care Track: Three Unknown and Challenging Cases in Hypertension
Bayview Room

Moderator:

William J. Elliott, MD, PhD, FASH,
Pacific Northwest University of Health Sciences

Panelists:

Jan Basile, MD, Medical University of South Carolina
Keith Ferdinand, MD
Nancy Young Ng, PharmD, CDE

10:00–10:30 AM

Session 14

The Harriet Dunstan Award Lecture
Grand Ballroom A

Moderators:

Karen Griffin, MD, FAHA, Loyola University of Chicago
Joey Granger, PhD, FAHA, University of Mississippi Medical Center

- 10:00 **The Harriet Dunstan Award Lecture**
Renal Denervation: A Treatment for Hypertension and Chronic Kidney Disease
Kate Maude Denton, PhD, FAHA, Monash University

10:30 AM–12:00 PM

Session 14

10:30 AM–12:00 PM

Session 14 Concurrent A Oral

Blood Pressure Monitoring
Grand Ballroom A

Moderators:

Raymond Townsend, MD, University of Pennsylvania
Daichi Shimbo, MD, Columbia College of Physicians & Surgeon

- 10:30 **An Attenuated Nocturnal Dip in Systemic Vascular Resistance is Associated With Increased Left Ventricular Mass** 071
Alan Hinderliter, Univ of North Carolina, Chapel Hill, NC; LaBarron Hill, James Blumenthal, Andrew Sherwood, Duke Univ, Durham, NC

- 10:45 **Paradoxical Blood Pressure Increase After Brief Patient Rest Period** 072
Abimbola Shofu, Timothy Kennedy, Bassam Omar, Christopher Malozzi, G. Mustafa Awan, Univ of South Alabama, Mobile, AL

Program Agenda (continued)

11:00	Blood Pressure Variability and Control by 24-hour Ambulatory Blood Pressure Monitoring Before and After Resection of Catecholamine-secreting Neuroendocrine Tumors Jordana B. Cohen, Univ of Pennsylvania, Philadelphia, PA; Anirban Ganguli, Georgetown Univ, Washington Hosp Ctr, Washington, DC; Bonita J. Bennett, Raymond R. Townsend, Debbie L. Cohen, Univ of Pennsylvania, Philadelphia, PA	073	Maria Alicia Carrillo-Sepulveda, NYIT Coll of Osteopathic Medicine, Old Westbury, NY	
11:15	Use of Antihypertensive Drugs, Drug Classes, and Combinations in Resistant versus Non-resistant Hypertension, and in True versus White-coat Resistant Hypertension Alejandro De La Sierra, Hosp Mutua Terrassa, Terrassa, Spain; Pedro Armario, Hosp Moises Broggi, Sant Joan Despi, Spain; Anna Oliveras, Hosp delMar, Barcelona, Spain; Jose R. Banegas, Univ Autonoma, Madrid, Spain; Manuel Gorostidi, Hosp General de Asturias, Oviedo, Spain; Ernest Vinyoles, Cap La Mina, Barcelona, Spain; Julian Segura, Hosp 12 de Octubre, Madrid, Spain; Juan J De la Cruz, Univ Autonoma, Madrid, Spain; Luis M. Ruilope, Hosp 12 de Octubre, Madrid, Spain	074	Dipeptidyl Peptidase IV (DPP4) Inhibition Enhances the Vasoconstrictor Response to Neuropeptide Y During Angiotensin-converting Enzyme Inhibition Scott Hubers, Jessica Wilson, Nancy Brown, Vanderbilt Univ Medical Ctr, Nashville, TN	79
11:30	Seasonal Variation and Day-by-day Variability in Nocturnal Blood Pressure Fall: The Nagahama Study Yasuharu Tabara, Takeshi Matsumoto, Kimihiko Murase, Shunsuke Nagashima, Toyohiro Hirai, Shinji Kosugi, Takeo Nakayama, Tomoko Wakamura, Kazuo Chin, Fumihiko Matsuda, Kyoto Univ, Kyoto, Japan	075	Endothelin-1 Exaggerates Type-1 Diabetes-Accelerated Atherosclerosis Through NADPH Oxidase 1 Pierre Paradis, Sofiane Ouerd, Nouredine Idris-Khodja, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Michelle Trindade, State Univ of Rio de Janeiro, Rio de Janeiro, Brazil; Suellen C. Coelho, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Mario F. Neves, State Univ of Rio de Janeiro, Rio de Janeiro, Brazil; Karin A. Jandeleit-Dahm, Baker IDI Heart & Diabetes Res Inst, Melbourne, Australia; Ernesto L. Schiffrin, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada	80
11:45	Factors Associated With Home Blood Pressure Monitoring Among US Adults: The National Health and Nutrition Examination Survey (NHANES), 2013-2014 Joel C. Marrs, Sarah L Anderson, Univ Colorado Anschutz Medical Campus, Aurora, CO	076	Pathogenic Role of Ubiquitin Ligase Khl3 in Diabetic Nephropathy Kenichi Ishizawa, Shunya Uchida, Shigeru Shibata, Div of Nephrology, Dept of Internal Med, Teikyo Univ Sch of Med, Tokyo, Japan	81
10:30 AM-12:00 PM Session 14 Concurrent B Oral Obesity and Diabetes II Seacliff Room Moderators: Daniel Battle, MD, Northwestern University Feinberg School of Medicine Adam T. Whaley-Connell Sr., DO, University of Missouri-Columbia School of Medicine				
10:30	Angiotensinogen in Neurons of the Arcuate Nucleus May Regulate Metabolic Rate in Mice Sarah A. Sapouckey, Guorui Deng, Kristin E. Clafflin, Katherine N. Gibson-Corley, Justin L. Grobe, Univ of Iowa, Iowa City, IA	077	On the Significance of Urinary Renin in Diabetic Kidney Disease: A Critical Role of Impaired Proximal Tubular Reabsorption Jeannette Tang, Jan Wysocki, Johannes Rein, Minghao Ye, Northwestern Univ, Chicago, IL; Maryam Afkarian, Univ of California, Davis, CA; Daniel Battle, Northwestern Univ, Chicago, IL	082
10:45	Ox-LDL Leads to Increases of Endothelial Lysine Acetylation Linking Metabolic Memory to Diabetic Vascular Dysfunction	078	10:30 AM-12:00 PM Session 14 Concurrent C Oral Neurogenic Mechanisms I Pacific L-O Moderator: Sean D. Stocker, PhD, University of Pittsburgh	
			Neurons in the Organum Vasculosum of the Lamina Terminalis Contribute to Salt-sensitive Hypertension Sean D. Stocker, Univ of Pittsburgh, Pittsburgh, PA	083
			Neurons in the Nodose Ganglion that Express Angiotensin Type 1a Receptors Function as Primary Baroreceptor Afferents: An in vitro and in vivo Optogenetic Study Erin B. Bruce, Gean Domingos-Souza, Michael D. Smeltzer, Yalun Tan, Karlana Cahill, Scott W. Harden, Charles J. Frazier, Colin Sumners, Mohan K. Raizada, Eric G. Krause, Annette D. de Kloet, Univ Florida, Gainesville, FL	084

Program Agenda (continued)

11:00 **CHIP: E3 Ubiquitin Ligase Mediates Proteasomal Degradation of Neuronal Nitric Oxide Synthase in the Paraventricular Nucleus of Rats with Heart Failure**
Neeru M. Sharma, Kenichi Katsurada, Xuefei Liu, Kaushik P. Patel, UNMC, Omaha, NE

11:15 **Knockdown of the Neuronal (Pro)renin Receptor in the Paraventricular Nucleus of the Hypothalamus Attenuates ERK1/2 Activation and the Development of Salt Sensitive Hypertension**
Dane D Jensen, Univ of Nevada Reno, Dept. Pharmacology and Physiology & Cell Biology; Ctr for Cardiovascular Res, Reno, NV; Wencheng Li, Wake Forest Univ, Winston-Salem, NC; Yumei Feng, Univ of Nevada Reno, Dept. Pharmacology and Physiology & Cell Biology; Ctr for Cardiovascular Res, Reno, NV

11:30 **Deletion of Brain-specific Isoform of Renin (renin-b) Increases Resting Metabolic Rate by Stimulating Thermogenic Sympathetic Nerve Activity**
Javier Gomez, Pablo Nakagawa, Keisuke Shinohara, Donald A. Morgan, Benjamin J. Weidemann, Matthew D. Folchert, Kamal Rahmouni, Justin L. Grobe, Curt D. Sigmund, Univ of Iowa, Iowa City, IA

11:45 **At1 Receptor on Glutamatergic Neurons Regulate Autonomic Function Through Modulation of Neuronal Excitability and Sympathetic Outflow**
Jiaxi Xu, LSU Health Sciences Ctr-NO, New Orleans, LA; Adrien Molinas, Andrea Zsombok, Tulane Univ Sch of Med, New Orleans, LA; Eric Lazartigues, LSU Health Sciences Ctr-NO, New Orleans, LA

12:00–1:30 PM

Awards and Annual Business Meeting Luncheon (Ticketed event)
Grand Ballroom C-D

1:30–3:00 PM

Poster Session 3
Pacific A-K

Posters P409-P551 will be presented during this session. See pages 40 for details.

1:30–3:00 PM

Session 15 Concurrent D
Clinical Practice Clinical Science Track:
Masked vs. White-Coat Hypertension
Bayview Room

Moderator:
TBD

085 1:30 **Masked Hypertension (Epidemiology, Risk, Evaluation, Treatment, Outcomes)**
Daichi Shimbo, MD, Columbia University Medical Center

1:50 **White-Coat Hypertension (Epidemiology, Risk, Evaluation, Treatment, Outcomes)**
Stanley S. Franklin, MD, University of California, Irvine

2:10 **Panel Discussion with Q & A**
Daichi Shimbo, MD, Columbia University Medical Center
Stanley S. Franklin, MD, University of California, Irvine

Special Situations in Clinical Hypertension
Moderator:

Gary Schwartz, MD, Mayo Clinic

2:40 **Chemotherapy-Associated Hypertension (Tyrosine Kinase Inhibitors, Others)**
Rhian Touyz, PhD, University of Glasgow

3:00–3:30 PM

Refreshment Break and Exhibits
Grand Ballroom Foyer

3:30–5:30 PM

Session 16

3:30–5:30 PM

Session 16 Concurrent A Oral
Blood Pressure Control and Adherence to Treatment
Grand Ballroom

Moderators:

John M. Flack, Southern Illinois University School of Medicine
Bryan Williams, University of Leicester

3:30 **A Simple Algorithm Identifies Hypertensive Patients Who Benefit From Intensive Blood Pressure Lowering** 089

Shidan Wang, Rohan Khara, Sandeep Das, Rebecca Vigen, Tao Wang, Xin Luo, Rong Lu, Xiaowei Zhan, Guanghua Xiao, Wanpen Vongpatanasin, Yang Xie, Univ of Texas Southwestern Medical Ctr, Dallas, TX

3:45 **Nocturia as an Unrecognized Symptom of Uncontrolled Hypertension in Middle-age Black Men** 090

Ronald G. Victor, Cedars Sinai Medical Ctr, Los Angeles, CA; Ning Li, Univ of California-Los Angeles, Los Angeles, CA; O'Neil Mason, Kathleen Lynch, Mohamad Rashid, Cedars Sinai Medical Ctr, Los Angeles, CA; Robert Elashoff, Univ of California-Los Angeles, Los Angeles, CA

4:00 **Improved Blood Pressure Control and High Adherence to a Novel Management Model of Hypertension Care in a West African Population** 091

Isaac Owusu, Kwame Nkrumah Univ of Sciences and Technology, Kumasi, Ghana; Fred Adomako-Boateng, Suntreso District Hosp, Kumasi, Ghana; Fred Kueffer, Molly

Program Agenda (continued)

Guy, Chemuttaai Lang'at, Daniel Grossman, Douglas Hettrick, Teri Whitman, Keith Holloman, Medtronic, St Paul, MN; O. Opare-Sem, Kwame Nkrumah Univ of Sciences and Technology, Kumasi, Ghana		
4:15	Global SYMPLICITY Registry: 3 Year Safety and Efficacy Data	092
Michael Böhm, Univskliniken des Saarlandes, Klinik für Innere Med III, Homburg/Saar, Germany; Giuseppe Mancina, Univ of Milano-Bicocca, Monza, Italy; Roland Schmieder, Univ Hosp Erlangen, Erlangen, Germany; Markus Schlaich, Royal Perth Hosp Unit, The Univ of Western Australia, Perth, Australia; Felix Mahfoud, Univskliniken des Saarlandes, Klinik für Innere Med III, Homburg/Saar, Germany		
4:30	Can Hypertension Control be Improved Within a Short Time Frame? – Results From Implementing the Measure Accurately, Act Rapidly and Partner With Patients (MAP) Program	093
Brent Egan, Univ of South Carolina Sch of Med-Greenville, Greenville, SC; Michael Rakotz, American Medical Association, Chicago, IL; R. Bruce Hanlin, Irfan Asif, Dept of Family Med, Greenville Health System, Greenville, SC; Jianing Yang, American Medical Association, Chicago, IL; Susan Sutherland, Univ of South Carolina Sch of Med-Greenville, Greenville, SC; Robert Davis, Care Coordination Inst, Greenville, SC; Gregory Wozniak, American Medical Association, Chicago, IL		
4:45	Predicting the Risk of Apparent Treatment Resistant Hypertension: A Retrospective, Longitudinal, Cohort Study in an Urban Hypertension Referral Clinic Setting	094
Michael G. Buhnerkempe, Albert Botchway, Carlos Nolasco-Morales, Vivek Prakash, Lowell Hedquist, John M. Flack, Southern Illinois Univ Sch of Med, Springfield, IL		
5:00	Digital Solution Assisted Retail Pharmacists in Community Hypertension Control in China: A Real World Study of Large Sample	095
Wenhao Qu, Sinopharm Group Company Limited, Shanghai, China; Zhen Wang, Ying Chen, Yingjie Li, Kai Liu, CareLinker Co., Ltd., Shanghai, China		
5:15	Comparing Strategies to Improve Systolic Blood Pressure Over 10 Years: A Simulation Study Using the Blood Pressure Control Model	096
Brandon K. Bellows, Univ of Utah, Salt Lake Cty, UT; Andrew E. Moran, Columbia Univ, New York, NY; Natalia Ruiz-Negrón, Univ of Utah, Salt Lake Cty, UT; Kirsten Bibbins-Domingo, Mark Pletcher, Valy Fontil, Univ of California, San Francisco, San Francisco, CA		
3:30–5:30 PM Session 16 Concurrent B Oral Salt and Hypertension <i>Seacliff Room</i> Moderator: Pablo A. Ortiz, Henry Ford Hospital		
3:30	Knockout of Matrix Metalloproteinase 9 Protects Against Hypertension-induced Renal Disease in Hypertensive Dahl S Rats	097
Chao Zhang, Paige N. Mims, Univ of Mississippi Medical Ctr, Jackson, MS; Tongyu Zhu, Zhongshan Hosp, Fudan Univ, Shanghai, China; Fan Fan, Richard J Roman, Univ of Mississippi Medical Ctr, Jackson, MS		
3:45	Augmenting Renal Lymphatic Vessel Density Prevents Salt-sensitive Hypertension in Mice	098
Dakshnapriya Balasubbramanian, Catalina A. Lopez Gelston, Gabriella R. Abouelkheir, Alexandra H. Lopez, Kayla R. Hudson, Eric R. Johnson, Victoria C. Garza, Reem A. Daboul, Joseph M. Rutkowski, Brett M. Mitchell, Texas A&M Univ Health Science Ctr, College Station, TX		
4:00	Smooth Muscle PPARγ Mutation Causes Salt-sensitive Hypertension	099
Jing Wu, Larry N. Agbor, Masashi Mukohda, Anand R. Nair, Pablo Nakagawa, Justin L. Grobe, Curt D. Sigmund, Univ of Iowa, Iowa City, IA		
4:15	Tissue-specific Deletion of Collectrin in the Proximal Tubular Epithelium Increases Arterial Pressure and Augments Salt-sensitivity	101
Sylvia Cechova, Univ Virginia Sch Med, Charlottesville, VA; Pei-Lun Chu, Fu Jen Catholic Univ, New Taipei City, Taiwan; Joseph C. Gigliotti, Liberty Univ, Lynchburg, VA; Fan Chan, Thu H. Le, Univ Virginia Sch Med, Charlottesville, VA		
4:30	Loss of Salt Sensing Kinase, SGK1, in T Cells Abrogates Memory T Cell Formation, Hypertension, and End-organ Damage	102
Hana A. Itani, Arvind Pandey, Allison E. Norlander, Meenakshi S. Madhur, David G. Harrison, Vanderbilt Univ Medical Ctr, Nashville, TN		
4:45	Decreased Ability to Excrete a Na Load and Hypertension in the ALMS1 (Alstrom Syndrome 1) Knockout Rat	103
Keyona N. King-Medina, Ankita B. Jaykumar, Pablo A. Ortiz, Henry Ford Hosp, Hypertension and Vascular Res Div, Dept of Internal Med, Wayne State Univ Sch of Med, Detroit, MI		
5:00	Cerebrovascular and Cognitive Dysfunction in DOCA-Salt Hypertension is Mediated by Perivascular Macrophages	104
Monica M. Santisteban, Giuseppe Faraco,		

Program Agenda (continued)

Gianfranco Racchumi, Josef Anrather,
Costantino Iadecola, Weill Cornell Medical Coll,
New York, NY

- 5:15 **Therapeutic Suppression of Mtorc2 Signaling Reduces Salt-induced Hypertension and Kidney Injury in SS Rats** 105
Vikash Kumar, Loius Evans, Clayton Wollner,
Theresa Kurth, Allen W. Cowley Jr., Medical
Coll Wisconsin, Milwaukee, WI

3:30–5:30 PM

Session 16 Concurrent C Oral

The Kidney: Causes and Consequences of Hypertension

Pacific L-O

Moderators:

Christopher S. Wilcox, MD, FAHA, Georgetown University
Medical Center

Mariela E. Mendez, PhD, Henry Ford Hospital

- 3:30 **Probenecid Downregulates Kidney Pendrin and AQP-2 and Potentiates Hydrochlorothiazide-induced Diuresis** 106
Manoocher Soleimani, Sharon Barone,
Kamyar Zahedi, Jie Xu, Univ, Cincinnati, OH

- 3:45 **Role of Nox4 in the Control of ENaC Activity in Dahl SS Rats During the Development of Salt-induced Hypertension and Diabetic Nephropathy** 107
Tengis S. Pavlov, Henry Ford Health System,
Detroit, MI; Daria V. Ilatovskaya, Gregory Blass,
Oleg Palygin, Vladislav Levchenko, Allen W.
Cowley Jr., Alexander Staruschenko, Medical
Coll of Wisconsin, Milwaukee, WI

- 4:00 **Imaging Renin Granule Exocytosis by Total Internal Reflection (TIRF) Microscopy in Mouse Juxtaglomerular Cells: Effect of cAMP and Beta Adrenergic Stimulation** 108
Mariela Mendez, Henry Ford Hosp, Detroit, MI

- 4:15 **Gamma-adducin Effects on Microvascular Function- a Common Link of Hypertension Induced Chronic Kidney Disease and Cognitive Impairments** 109
Fan Fan, Shaoxun Wang, Paige N. Mims,
Chao Zhang, Richard J. Roman, Univ of
Mississippi Medical Ctr, Jackson, MS

- 4:30 **Reduced Expression, Knockout, and Pharmacological Intervention of Arhgef11-RhoA Pathway Significantly Attenuates Renal Injury and Blood Pressure** 110
Ashley C. Johnson, Univ of Mississippi Medical
Ctr, Jackson, MS; David S Pasco, Univ of
Mississippi – Sch of Pharmacy, Oxford, MS;
Michael R. Garrett, Univ of Mississippi Medical
Ctr, Jackson, MS

- 4:45 **A Kidney Targeted Epoxyeicosatrienoic Acid Analog, EET-F01, Reduces Cisplatin-induced Nephrotoxicity** 111
John D. Imig, Md Abdul Khan, Medical Coll
of Wisconsin, Milwaukee, WI; Adeniyi M.

Adebesin, John R. Falck, Univ of Texas
Southwestern Medical Ctr, Dallas, TX

- 5:00 **Myeloid Mineralocorticoid Receptor Controls Inflammatory and Fibrotic Responses After Renal Ischemic Injury via Macrophage Interleukin-4 Receptor** 112

Jonatan Barrera-Chimal, Insto de
Investigaciones Biomédicas, UNAM,
Mexico City, Mexico; Sebastian M. Lechner,
Soumaya El Moghrabi, INSERM, UMRS 1138,
Ctr de Recherche des Cordeliers, Paris, France;
Peter Kolkhof, BAYER AG, Wuppertal, Germany;
Frédéric Jaisser, INSERM, UMRS 1138, Ctr de
Recherche des Cordeliers, Paris, France

- 5:15 **Beneficial or Harmful? The Role of Intensive Anti-hypertensive Treatment in the Development of Chronic Kidney Disease** 113
Ling Wang, Donna Wang, Michigan State Univ,
East Lansing, MI

3:30–5:30 PM

Session 16 Concurrent D

Clinical Practice Clinical Science Track & Special Situations in Clinical Hypertension

Bayview Room

Moderator:

Barry Materson, MD, Miami University

- 3:30 **Hypertensive Urgencies and Emergencies: Our Present Approach**
William J. Elliott, MD, PhD, FASH, Pacific Northwest
University of Health Sciences

- 3:50 **Hypertension in Transplant Recipients**
John D. Scandling, MD, Stanford University
Medical Center

- 4:10 **Hypertension in Dialysis Patients**
Arjun Sinha, MD, Indiana University School
of Medicine

- 4:30 **Hypertension in Hospitalized Patients**
Alan Weder, MD, University of Michigan

- 4:50 **Hypertension Treatment in Patients with Cerebrovascular Disease**
Philip Gorelick, MD, Michigan State University
College of Human Medicine

Panelists:

William J. Elliott, MD, PhD, FASH, Pacific Northwest
University of Health Sciences

John D. Scandling, MD, Stanford University
Medical Center

Alan Weder, MD, University of Michigan

Philip Gorelick, MD, Michigan State University
College of Human Medicine

5:35–5:45 PM

Break

5:45–6:30 PM

Session 17

The Excellence Award for Hypertension Research

*Supported by a grant from Novartis Pharmaceuticals Corp.
Grand Ballroom*

SATURDAY

Program Agenda (continued)

Moderators:

Christopher S. Wilcox, MD, FAHA, Georgetown University Medical Center
Joey Granger, PhD, FAHA, University of Mississippi Medical Center,

Microneurographic Studies of Sympathetic Neural Mechanisms in Human Hypertension

Allyn L. Mark, MD, University of Iowa Carver College of Medicine

CYP Eiconosonoids, Hypertension, Renal Injury and Dementia

Richard J. Roman, PhD, University of Mississippi Medical Center

7:30–8:00 PM

Excellence Award for Hypertension Research Reception (Ticketed event)

Lower/Upper Atrium

8:00–10:00 PM

Excellence Award for Hypertension Research Dinner (Ticketed event)

Grand Ballroom B-C

SUNDAY, SEPTEMBER 17

6:00 AM

Registration/Information Desk Opens

6:00 AM

Refreshments

Grand Ballroom Foyer

7:30–8:00 pm

Session 18

The Lewis K. Dahl Award Lecture

Grand Ballroom A

Moderators:

Karen Griffin, MD, FAHA, Loyola University of Chicago
Joey Granger, PhD, FAHA, University of Mississippi Medical Center,

7:30 The Lewis K. Dahl Award Lecture

Understanding Angiotensin II Signaling in Vascular Pathophysiology

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

8:00–9:30 AM

Session 18

8:00–9:30 AM

Session 18 Concurrent A Oral Neurogenic Mechanisms II

Grand Ballroom

Moderator:

Christopher T. Banek, PhD, University of Minnesota
Cyndya A. Shibao, MD, Vanderbilt University

8:00 Sympathetic Activity Increases With Obesity in Hypertensive Patients 114

Mohammed Siddiqui, Tanja Dudenbostel, Chee Paul Lin, Suzanne Oparil, David A. Calhoun, Univ of Alabama at Birmingham, Birmingham, AL

8:15 Primary Hyperadrenergic Postural Tachycardia Syndrome. Evidence From Sympathetic Nerve Recordings 115

Luis E. Okamoto, Emily M. Garland, Vanderbilt Autonomic Dysfunction Ctr, Nashville, TN; Kyoko Sato, Dept of Med, Tokyo Women's Medical Univ, East Medical Ctr, Tokyo, Japan; Laura Diedrich, Middle Tennessee Res Inst, Nashville, TN; Raffaello Furlan, Dept of Biomedical Sciences – Humanitas Univ, Milano, Italy; Giris Jacob, Dept of Med & Recanati Autonomic Dysfunction Ctr, Tel Aviv Sourasky Medical Ctr, and Sackler Faculty of Med, Tel Aviv Univ, Tel Aviv, Israel; David Robertson, Italo Biaggioni, André Diedrich, Vanderbilt Autonomic Dysfunction Ctr, Nashville, TN

8:30 Potent Hypertensive Actions of Angiotensin-sensitive Neurons Within the Lamina Terminalis 116

Annette D. De Kloet, Gean Domingos-Souza, Michael D. Smeltzer, Yalun Tan, Karlana Cahill, Erin B. Bruce, Mohan K Raizada, Colin Summers, Eric G. Krause, Univ of Florida, Gainesville, FL

8:45 Renal Nerves Mediate Renal Inflammatory Signaling Independent of Hypertension in the DOCA-salt Rat 117

Christopher T. Banek, John W. Osborn, Univ of Minnesota, Minneapolis, MN

9:00 Baroreflex Hypofunction is Due to Increased Arterial Stiffness in Chronic Hypertension 118

Mariano Duarte, Jose Milei, Hosp de Clinicas Facultad de Medicina UBA, Buenos Aires, Argentina; Eleonora Savio Galimberti, Lankenau Inst for Medical Res, Philadelphia, PA; Carlos Reyes Toso, Catedra de Fisiologia Facultad de Medicina UBA, Buenos Aires, Argentina; Claudio Bellido, Hosp de Clinicas Facultad de Medicina UBA, Buenos Aires, Argentina

9:15 Norepinephrine (NE) Resides in Renal Perivascular Adipose Tissue: Form and Function 119

Carolina B. Restini, Alex Ismail, Robert Burnett, Gregory D Fink, Michigan State Univ – MSU, East Lansing, MI; Stephanie W. Watts, MI, East Lansing, MI

8:00–9:30 AM

Session 18 Concurrent B Oral Vascular Stiffness

Seacliff Room

Moderators:

James Sowers, MD, University of Missouri
Gary L. Pierce, PhD University of Iowa

SATURDAY/SUNDAY

Program Agenda (continued)

- 8:00 **Endothelial Specific Sodium Channel Activation in Endothelium Dysfunction and Vascular Stiffness in Obese Female Mice** 120
Guanghong Jia, Annayya R.. Aroor, Michael A. Hill, Sadie A. Allen, Javad Habibi, Yan Yang, Yan Jia, Dongqing Chen, Camila M. Manrique, Guido Lastra, Vincent G. DeMarco, Adam Whaley-Connell, Luis A Martinez-Lemus, Gerald A. Meininger, Univ of Missouri, Columbia, MO; Frederic Jaissier, INSERM, UMR_S 1138, Team 1, Ctr de Recherche des Cordeliers, UPMC Univ Paris 06, Univ Paris Descartes, Paris, France; James R. Sowers, Univ of Missouri, Columbia, MO
- 8:15 **Longitudinal Associations of Childhood Hemodynamic and Metabolic Traits to Adult Aortic Stiffness Vary by Race: The Bogalusa Heart Study** 121
Justin P. Zachariah, Texas Childrens Hosp, Houston, TX; Camilo Fernandez, Rupert Barshop, Emily Harvill, Wei Chen, Lydia Bazzano, Tulane Univ, New Orleans, LA
- 8:30 **20-HETE Antagonists Normalize Large Artery Stiffness and Systolic Blood Pressure in Metabolic Syndrome** 122
Amanda A. Soler, Ian Hunter, Gregory Joseph, Rebecca Hutcheson, Brenda Hutcheson, Jenny Yang, Frank F Zhang, Sachindra R. Joshi, New York Medical Coll, Valhalla, NY; Chastity Bradford, Tuskegee Univ, Tuskegee, AL; Katherine H. Gotlinger, Rachana Maniyar, New York Medical Coll, Valhalla, NY; John R. Falck, Univ of Texas Southwestern Medical Ctr, Dallas, TX; Spencer Proctor, Metabolic and Cardiovascular Diseases Lab, Edmonton, AB; Michal L Schwartzman, Sachin A. Gupte, Petra Rocic, New York Medical Coll, Valhalla, NY
- 8:45 **Subtle Changes in Mechanical Properties of Carotid Artery in Overweight and Obese Children** 123
Sung-ai Kim, Div of Cardiology, Dept of Internal Med, Hallym Sacred Heart Hosp, Hallym Univ Coll of Med, An-yang, Korea, Republic of; Young Kyun Seo, Kyung-Hee Park, Dept of Family Med, Hallym Sacred Heart Hosp, Hallym Univ Coll of Med, An-yang, Korea, Republic of
- 9:00 **RhoBTB1, a Novel PPAR γ Target Gene, Rescues Hypertension and Vascular Dysfunction Caused by PPAR γ Dysfunction** 124
Masashi Mukohda, Stella-Rita C. Ibeawuchi, Chunyan Hu, Jing Wu, Ko-Ting Lu, Debbie R. Davis, Deng-Fu Guo, Kamal Rahmouni, Frederick W Quelle, Curt D. Sigmund, Univ of Iowa, Iowa City, IA
- 9:15 **Elevated Muscle Sympathetic Nerve Activity is Associated With Higher Aortic and Carotid Stiffness Independent of Blood Pressure in Women** 125

Seth W. Holwerda, Rachel E. Luehrs, Nealy A. Wooldridge, Lyndsey E. DuBose, Jess G. Fiedorowicz, Gary L. Pierce, Univ of Iowa, Iowa City, IA

8:00–9:30 AM

Session 18 Concurrent C Oral

Epidemiology

Pacific L-O

Moderator:

Elaine M. Urbina, MD, Cincinnati Childrens Hospital

- 8:00 **Blood Pressure in Childhood Predicts HTN in Adulthood: The International CV Cohorts Consortium** 126
Elaine M. Urbina, Cincinnati Childrens Hosp, Cincinnati, OH; Lydia Bazzano, Tulane Univ, New Orleans, LA; Trudy Burns, Univ of Iowa, Iowa City, IA; Terry Dwyer, Oxford Univ, Cambridge, United Kingdom; David Jacobs, Univ of Minnesota, Minneapolis, MN; Markus Juonala, Univ of Turku, Turku, Finland; Ronald Prineas, Wake Forest Univ, Wake Forest, NC; Olli Raitakari, Univ of Turku, Turku, Finland; Alan Sinaiko, Julia Steinberger, Univ of Minnesota, Minneapolis, MN; Alison Venn, Univ of Tasmania, Hobart, Australia; Jessica Woo, Cincinnati Childrens Hosp, Cincinnati, OH
- 8:15 **Disparities in Total Health Care Expenditure, and Payment Type Related to Hypertension Between Non Hispanics and Hispanics in the USA: Results From the Medical Expenditure Panel Survey (2013-2014)** 127
Emir Veledar, Anshul Saxena, Emeka Osondu, Javier Valero Elizondo, Khurram Nasir, Baptist Health South Florida, Miami, FL
- 8:30 **Visit-to-visit Variability of Systolic BP and Renal Outcomes in the SPRINT Trial** 128
Jesse Goldman, Sandeep Aggarwal, Suzanne Boyle, Leslie McClure, Rebecca Seshasai, Meera Harhay, Drexel Univ, Philadelphia, PA
- 8:45 **In Defense of Clinic Blood Pressure** 129
Srividya Kidambi, Thomas Chelius, Irene Nunuk, Yue Ding, Brittaney Obi, Sumeet Jain, David Mattson, Allen Cowley, Purushottam Laud, Tao Wang, Jane Kotchen, Mingyu Liang, Theodore Kotchen, Medical Coll of Wisconsin, Milwaukee, WI
- 9:00 **The Prognosis of Prehypertension Without Progression to Hypertension** 130
Teemu J. Niiranen, Martin G. Larson, Framingham Heart Study, Framingham, MA; Elizabeth L. McCabe, Brigham and Women's Hosp, Boston, MA; Ramachandran S. Vasan, Framingham Heart Study, Framingham, MA; Susan Cheng, Brigham and Women's Hosp, Boston, MA

Program Agenda (continued)

9:15 **Racial Differences in Nocturnal Hypertension and Non-dipping Blood Pressure: The Coronary Artery Risk Development in Young Adults (CARDIA) Study**
Paul Muntner, John N. Booth III, Stephen J. Thomas, Luqin Deng, Univ Alabama Birmingham, Birmingham, AL; Joseph E. Schwartz, Columbia Univ, New York, NY; Donald Llyod-Jones, Northwestern Univ Feinberg Sch of Med, Chicago, IL; James M. Shikany, Cora E. Lewis, Univ Alabama Birmingham, Birmingham, AL; Daichi Shimbo, Columbia Univ, New York, NY

7:00–9:30 AM

Session 18 Concurrent D

**Clinical Practice Clinical Science Track:
The Sympathetic Nervous System and BP Control**
Bayview Room

Moderator:

Robert Phillips, MD, PhD, Houston Methodist

7:00 **The Kidney, Nervous System, and Blood Pressure**
Gerald DiBona, MD, University of Iowa College of Medicine

7:20 **What happened to beta-blockers as commonly used antihypertensive agents?**
Sripal Bangalore, MD, MHA, New York University School of Medicine

7:40 **What happened to alpha-blockers as commonly used antihypertensive agents?**
Samuel Mann, MD, Weill Cornell Medicine

8:00 **Update on renal denervation**
Michael Weber, MD SUNY Downstate College of Medicine

8:40 **Putting It All Together Clinically**
Ronald G. Victor, MD, Cedars-Sinai Heart Institute

9:00 Panel Discussion

Panelists:

Gerald DiBona, MD, University of Iowa College of Medicine
Sripal Bangalore, MD, MHA New York University School of Medicine
Samuel Mann, MD, Weill Cornell Medicine
Michael Weber, MD SUNY Downstate College of Medicine
Ronald G. Victor, MD, Cedars-Sinai Heart Institute

9:30–9:45 AM

Refreshment Break

Grand Ballroom Foyer

9:45–11:00 PM

Session 19 Concurrent A, B and C

131

9:45–11:00 AM

Session 19 Concurrent A Oral

Salt Sensitive Hypertension

Grand Ballroom A

Moderators:

Jens M. Titze, MD, Vanderbilt University
Meena Madhur, MD, PhD, Vanderbilt University School of Medicine

9:45 **Monocytes Activation by Salt is Associated With Cardiovascular Risk Factors** 132

Natalia Ruggeri Barbaro, Jason D. Foss, Roxana Loperena, Fernando Eljovich, Cheryl L. Laffer, Wei Chen, Cristi L. Galindo, Kim R. Montaniel, Yan Guo, David G. Harrison, Annet Kirabo, Vanderbilt Univ, Nashville, TN

10:00 **Kidney-specific Conditional Knockout of Klotho Gene Impairs Natriuresis and Causes Arterial Stiffness and Hypertension** 133
Zhongjie Sun, Quaisar Ali, Univ Oklahoma, Oklahoma City, OK

10:15 **Proximal Tubule-mediated Control of Albumin Balance During the Development of Salt-sensitive Hypertension** 134
Oleg Palygin, Vladislav Levchenko, Ashraf El-Meanawy, Alexander Staruschenko, Medical Coll of Wisconsin, Milwaukee, WI

10:30 **PVN Galphai2 Protein Over Expression Attenuates Dahl Salt Sensitive Hypertension and GNAI2 Polymorphic Variance Represents a Clinical Biomarker of the Salt Sensitivity of Blood Pressure** 135
Richard D Wainford, Xiaoling Zhang, Boston Univ Sch Med, Boston, MA

10:45 **Improvement of BP Control (and Simultaneous Reduction of Drug Consumption) in Treated Hypertensive Patients Compliant to a Minimal Dietary Sodium Restriction** 136
Natale Musso, Beatrice Carloni, Maria C. Chiusano, IRCCS San Martino Genova, Genova, Italy

9:45–11:00 AM

Session 19 Concurrent B Oral

Renin-Angiotensin System II

Seacliff Room

Moderators:

William J. Welch, PhD, Georgetown University
Minolfa C. Prieto-Carrasquero, MD, PhD, Tulane University Health Science Center

9:45 **Sox6 Regulates Renin Expression During Juxtaglomerular Cell Expansion** 137
Jason D. Foss, Liang Xiao, Kandi D. Horton, Mohammad Saleem, Vanderbilt Univ Medical Ctr, Nashville, TN; Conrad P. Hodgkinson, Duke Univ, Durham, NC; David G. Harrison, Jose A. Gomez, Vanderbilt Univ Medical Ctr, Nashville, TN

SUNDAY

Program Agenda (continued)

- | | | |
|---|--|--|
| <p>10:00 Mas-related G-protein Coupled Receptor D Deficiency Leads to a Marked Dilated Cardiomyopathy in Mice
Aline C. Oliveira, Marcos B. Melo, Augusto A. Peluso, Daisy Motta-Santos, Fernando P. Neto, Rafaela F. da Silva, Itamar C. Jesus, Silvia Guatimosim, UFMG, Belo Horizonte, Brazil; Natasha Alenina, Michael Bader, MDC, Berlin, Germany; Maria Jose Campagnole-Santos, Robson A. Santos, UFMG, Belo Horizonte, Brazil</p> <p>10:15 Loss of Thymosin b4 Exacerbates Renal and Cardiac Damage in Angiotensin-II Hypertension
Nitin Kumar, Tang-Dong Liao, Cesar Romero, Mani Maheshwari, Ed Peterson, Oscar Carretero, Henry Ford Health System, Detroit, MI</p> <p>10:30 Endogenous Renin-angiotensin System Activation Causes Accelerated Cerebral Vascular Dysfunction in Mice Expressing Dominant-negative Mutations in PPARγ in Endothelium
Anand R. Nair, Larry N. Agbor, Masashi Mukohda, Chunyan Hu, Jing Wu, Curt D. Sigmund, Univ of Iowa, Iowa City, IA</p> <p>10:45 Adipocyte Deficiency of Angiotensin Converting Enzyme 2 Increases Systolic Blood Pressures of Obese Female Mice
Robin C. Shoemaker, Wen Su, Ming Gong, Univ of Kentucky, Lexington, KY; Susan Gurley, Duke Univ, Durham, NC; Lisa Cassis, Univ of Kentucky, Lexington, KY</p> | <p>138 10:15 Reduced Placental Regulator of G-Protein Signaling-2 (RGS2) and Preeclampsia
Katherine J. Perschbacher, Guorui Deng, Jeremy A. Sandgren, Leslie Carillo-Saenz, Donna A. Santillan, Eric J. Devor, Gary L. Pierce, Mark K. Santillan, Rory A. Fisher, Katherine N. Gibson-Corley, Justin L. Grobe, Univ of Iowa, Iowa City, IA</p> <p>10:30 Central Angiotensin-(1-7) Treatment Attenuates ERK 1/2 Expression and Oxidative Stress in the Dorsal Medulla of Betamethasone-Exposed Sheep That Associates With Improved Blood Pressure and Baroreflex Sensitivity
Alexa S. Hendricks, Hossam A. Shaltout, Mark C. Chappell, Debra I. Diz, Wake Forest Sch of Med, Winston Salem, NC</p> <p>10:45 MicroRNA-216a Promotes M1 Macrophages Polarization Through the Activation of Telomerase
Shujun Yang, Jian Li, Yu Chen, Rutai Hui, Weili Zhang, State Key Lab of Cardiovascular Disease, Fuwai Hosp, Natl Ctr for Cardiovascular Diseases, Peking Union Medical Coll & Chinese Acad of Medical Sciences, Beijing, China</p> | <p>144</p> <p>145</p> <p>146</p> |
| <p>9:45–11:00 AM
SESSION 19 Concurrent C Oral
Developmental Programming and Pregnancy Induced Hypertension
<i>Pacific L-O</i></p> <p>Moderator:
Barbara Alexander, PhD, University of Mississippi Medical Center</p> | | |
| <p>9:45 Angiotensin II Type 1 Receptor Autoantibody Inhibition Improves Blood Pressure and Markers of Neurological Damage and Oxidative Stress in Brains of Placental Ischemic Rats During Pregnancy
Mark W. Cunningham Jr., Venkata Ramana Vaka, Lorena Amaral, Fan Fan, Tarek Ibrahim, Richard R. Roman, Babbette LaMarca, Univ of Mississippi Medical Ctr, Jackson, MS</p> <p>10:00 Pregnancy Dependant Transcriptomic Changes in Uterine Arteries from Hypertensive and Normotensive Rat Models
Hannah L. Morgan, Elisabeth Beattie, Martin W. McBride, Delyth Graham, Univ of Glasgow, Glasgow, United Kingdom</p> | <p>139</p> <p>140</p> <p>141</p> <p>142</p> <p>143</p> | <p>9:45–11:00 AM
Session 19 Concurrent D
Clinical Practice Clinical Science Track:
Clinical Trials in Hypertension and Related Morbidities
<i>Bayview Room</i></p> <p>Moderator:
TBD</p> <p>9:45 Detrimental Cardiovascular Effects Associated With Use of >4 Drug Classes to Achieve Blood Pressure Control in SPRINT
Linsay McCallum, Andrea Llano, Alisha Aman, John McClure, Alan Jardine, Anna F. Dominiczak, Univ of Glasgow, Glasgow, United Kingdom; Phil Chowienzyk, Kings Coll, London, United Kingdom; Sandosh Padmanabhan, Univ of Glasgow, Glasgow, United Kingdom</p> <p>10:00 Association of Socioeconomic Context With Blood Pressure Response and Cardiovascular Outcomes in ALLHAT
Andi Shahu, Jeph Herrin, Sanket S. Dhruva, Nihar R. Desai, Harlan M Krumholz, Erica S. Spatz, Yale Sch of Med, New Haven, CT</p> <p>10:15 Impact of Baseline 10-year Cardiovascular Risk on Benefit and Harm of Intensive Treatment in SPRINT
Robert A. Phillips, Jiaqiong Xu, Leif E. Peterson, Houston Methodist, Houston, TX; Joseph A. Diamond, Hofstra Northwell Sch of Med, Hempstead, NY; Adam E. Schussheim, Bridgeport Hosp, Yale-New Haven Health</p> |

Program Agenda (continued)

System, Bridgeport, CT

10:30 **Target Organ Damage Occurs at SBP Levels Below the 95th Percentile in Adolescents: The SHIP AHOY Study** 150

Elaine M. Urbina, Cincinnati Children's Hosp, Cincinnati, OH; Marc Lande, Univ of Rochester Medical Ctr, Rochester, NY; Kevin Meyers, Children's Hosp of Philadelphia, Philadelphia, PA; Joshua Samuels, Univ of Texas Health Sciences Ctr, Houston, TX; Joseph Flynn, Seattle Children's Hosp, Seattle, WA

10:45 **Falls and Syncope Among Treated Hypertensive Individuals With Lower Systolic Blood Pressure** 151

John J. Sim, Kaiser Permanente Los Angeles Medical Ctr, Los Angeles, CA; Hui Zhou, Kaiser Permanente Southern California, Pasadena, CA; Rong Wei, Jocelyn Tran-Nguyen, Joel Handler, Kaiser Permanente Southern California, Los Angeles, CA; Jeffrey W. Brettler, Kaiser Permanente West Los Angeles Medical Ctr, Los Angeles, CA; Kristi Reynolds, Kaiser Permanente Southern California, Los Angeles, CA

11:00 AM

Conference Adjourns

See you next year

September 6-9, 2018

Hyatt Regency Chicago, Chicago, Illinois



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POSTERS

Poster Presentations

Poster Session Schedule

All poster sessions take place in **Pacific A-K**

Poster Session Date	Presentation Time	Set-up Time	Tear-Down Time
Session 1 Thursday, September 14	5:30–7:30 PM	Noon–5:00 PM	7:30–8:30 PM
Session 2 Friday, September 15	12:40–2:10 PM	8:00 AM–Noon	2:10–3:10 PM
Session 3 Saturday, September 16	1:30–3:00 PM	9:00 AM–1:00 PM	3:00–4:00 PM

Trainee Onsite Poster Competition

This year's annual Trainee Onsite Poster Competition takes place on Thursday, September 14 from 5:30–7:30 PM and Friday, September 15 from 12:40–2:10 PM and will highlight poster presentations by trainees and feature an onsite poster competition. Awards are co-sponsored by the Council on Hypertension Trainee Advocacy Committee and the International Society of Hypertension New Investigator Committee. Be sure to join us and engage conference poster presenters on their innovative research. The reception will be on Friday evening September 14, 2017 only. No additional fee for this event. Awards will be announced at the Annual Business Meeting and Luncheon on Saturday, September 16, 2017 from 12:00–1:30 PM.

Poster Session 1

Thursday, September 14, 5:30–7:30 PM
P100–P253

Poster Session 2

Friday, September 15, 12:40–2:10 PM
P254–P297

Poster Session Schedule

Abstracts P298–P551 will be presented as posters.

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

Abstract Category	Poster Numbers
Pregnancy and Preeclampsia/Developmental Programming of Cardiovascular Disease	P298–P310
Aldosterone/Receptors/Other Hormones	P311–P326
Salt and Hypertension	P327–P336
Inflammation, Immunity and Cytokines/Endothelial Factors/Oxidative Stress	P337–P348
Cardiac Hypertrophy and Dysfunction/Coronary Artery Disease and Hypertension	P349–P357
Blood Pressure Monitoring	P358–P375
Blood Pressure Control and Adherence to Treatment	P376–P385
Neurogenic Mechanisms	P386–P395
Epidemiology	P396–P408
Renin-Angiotensin System	P409–P428
The Kidney: Causes and Consequences of Hypertension	P429–P439
Hypertension and Aging/Cerebrovascular Disease and Stroke	P440–P454
Obesity/Metabolic Syndrome/Diabetes	P455–P473
Antihypertensive Drugs and Pharmacology/Patient-Provider-Healthcare System Issues/Pediatric and Adolescent Hypertension	P474–P482
Non-Pharmacological Therapy/Nutrition and Hypertension	P483–P489
Clinical Trials in Hypertension and Related Morbidities	P490–P497
Vascular	P498–P527
Genetics and Epigenetics/Proteomics and Metabolomics	P528–P533
Other	P539–P552
SFRN	P600–P621

Poster Presentations (continued)

- P100 **Bioavailability of Arginine versus Erbumine Formulations of Perindopril in Healthy Subjects**
Andrew Bishop, PNWU, Yakima, WA
- P101 **Degradation of Ang-(1-7) in Different Mouse Organs**
Andrew M Moore, Cliona O' Mahony, Thomas Walther, Univ Coll Cork, Cork, Ireland
- P102 **Liver Acquitted, Fat Indicted: Hepatic Chemerin Knockdown Does Not Reduce Blood Pressure While Whole-body Knockdown Does**
David J Ferland, Bridget Seitz, Emma S Darios, Janice M Thompson, Michigan State Univ, East Lansing, MI; Steve T Yeh, Adam E Mullick, Ionis Pharmaceuticals, Carlsbad, CA; Stephanie W Watts, Michigan State Univ, East Lansing, MI
- P103 **Anti-hypertensive Mechanisms of Action of G_q/11 Inhibitor Ligands**
Matthew M. Meleka, Shelby Dahlen, Alethia J. Edwards, Drexel Univ Coll of Med, Philadelphia, PA; Matthew Medcalf, Kevin D. Moeller, Washington Univ, Saint Louis, MO; Patrick Osei Owusu, Drexel Univ Coll of Med, Philadelphia, PA
- P104 **Oxygen Drastically Increases Cardiac Output Without Changing Mean Pulmonary Arterial Pressure in a Patient With Severe, Progressive Pulmonary Hypertension**
Dan Zheng, The Wright Ctr for Graduate Medical Education, Scranton, PA; Thomas Roe, Great Valley Cardiology, Scranton, PA
- P105 **A Pharmacist Guided Patient Driven Interdisciplinary Program to Improve Blood Pressure Control in Patients with Hypertension**
Charles Hopley, Emily Andrews, Patrick Klem, Liza Wilson, Michelle Jonjak, Zhiying You, Corey Lyon, Diana Jalal, Univ of Colorado Sch of Med, Aurora, CO
- P106 **Blood Pressure Regulation After Lisinopril Therapy in Persons With Diabetes**
Vesna Stojanov, Clinical Ctr of Serbia, Belgrade, Serbia; Katarina Paunovic, Branko Jakovljevic, Faculty of Med, Belgrade, Serbia; Zorica Milenkovic Vicentijevic, Alkaloid, Belgrade, Serbia
- P107 **Hypertensive Patients Health Beliefs and Management Behaviors in a Tertiary Health Institution in Nigeria**
Chinwe Elizabeth Eze, Oriyomi M Mohammed, Univ of Lagos, Yaba Lagos, Nigeria
- P108 **Standardised and Interdisciplinary Management of Hypertensive Urgency Improve Patients Medicalcare and Follow Up**
Mariano Duarte, Javier Coyle, Analia Aquieri, Claudio Yaryour, Hosp de Clinicas Facultad de Medicina UBA, Buenos Aires, Argentina; Eleonora Savio Galimberti, Lankenau Inst for Medical Res, Philadelphia, P
- P109 **Bridging the Gap: Comparison of Hypertension Management Between Internal Medicine Residency and Faculty Practices**
Karandeep Bumrah, Naveed Jan, Taranjit Gill, Aishwarya Kuchikulla, Marijeta Pekez, Courtney Fay, Kshitij Thakur, Crozer Keystone Health System, Upland, PA
- P110 **Low Intensity Stimulation of Aortic Baroreceptors as a Potential Therapeutic Alternative for Hypertension Treatment**
Ibrahim M Salman, Omar Z Ameer, Case Western Reserve Univ, Cleveland, OH; Arun Sridhar, Galvani Bioelectronics, Middlesex, United Kingdom; Stephen J Lewis, Yee-Hsee Hsieh, Case Western Reserve Univ, Cleveland, OH
- P111 **Target Organ Damage in Hypertensive Patients: A Comparison Using 24h-ABPM**
Nelson Dinamarco, UESC, Ilheus, Brazil; Mateus Kist Ibiapino, UESC, Ilheus, Brazil; Bernardo Pires Sampaio, Gabriela Ticle Monteiro, Barbara Espósito Carvalho, Vanessa Brito Couto, Marileide Dinamarco, Frida Liana Plavnik, UESC, Ilheus, Brazil
- P112 **Bmal1 in Perivascular Adipose Tissues Regulates Blood Pressure Rhythmicity via Angiotensinogen**
Lin Chang, Wenhao Xiong, Xiangjie Zhao, Yanbo Fan, Yanhong Guo, Minerva Garcia-Barria, Jifeng Zhang, Zhisheng Jiang, Yuqing Chen, Univ of Michigan, ann arbor, MI
- P113 **Pairing the Mobile Device: Does the Engagement of Student Health Coaches Help Patients Use Smart-phone Enabled Devices for Blood Pressure Monitoring?**
Elena Vasti, Mark Pletcher, Madelaine Faulkner, UCSF Sch of Med, San Francisco, CA
- P114 **White Coat Effect is Common Among Stroke Survivors**
Adriana Morell, Munachi Okpala, Sean Savitz, Anjail Z Sharrief, McGovern Medical Sch, Houston, TX
- P115 **Increased Diastolic Blood Pressure Post-mild Exercise is Associated With Early Structural and Functional Cardiovascular Abnormalities**
Susan Tucker, Mahfouz El Shahawy, Cardiovascular Ctr of Sarasota, Sarasota, FL
- P116 **Postpartum Catastrophe With Intracerebral Hemorrhage and Concurrent Cardiomyopathy**
Syed Rafay Ali Sabzwari, Yan Lin, Shengchuan Dai, Florida Hosp, Orlando, FL

- P117 Hydralazine Prevents the Rupture of Experimental Cerebral Aneurysms in Hypertensive Rats****Takeshi Miyamoto**, Keiko T Kitazato, Yoshiteru Tada, Kenji Shimada, Kenji Yagi, Masaaki Korai, Hidetsugu Maekawa, Tadashi Yamaguchi, Yasuhisa Kanematsu, Junichiro Satomi, Tokushima Univ Graduate Sch, Tokushima, Japan; Tomoki Hashimoto, Univ of California, San Francisco, San Francisco, CA; Shinji Nagahiro, Tokushima Univ Graduate Sch, Tokushima, Japan
- P118 Inhibition of Endoplasmic Reticulum Stress Prevents Intracranial Aneurysmal Rupture in a Mouse Model****Daisuke Kudo**, Hajime Furukawa, Univ of California San Francisco, San Francisco, CA; Satoru Eguchi, Temple Univ, Philadelphia, PA; Tomoki Hashimoto, Univ of California San Francisco, San Francisco, CA
- P119 Hypertension Trends in Florida Stroke Patients. The Florida Puerto Rico Collaboration to Reduce Stroke Disparities****Marialaura Simonetto**, Univ of Miami, Miami, FL; Nirav H. Shah, Swedish Neuroscience Inst, Seattle, WA; Kefeng Wang, Maria A. Ciliberti-Vargas, Carolina Gutierrez, Chuanhui Dong, Univ of Miami, Miami, FL; Jorge Sanchez, Oasis Pavillon, Phoenix, AZ; Dianne Foster, AHA, Marietta, GA; Jose' G. Romano, Ralph L. Sacco, Tatjana Rundek, Univ of Miami, Miami, FL
- P120 Down Regulation of Add3 in Astrocytes Induces Pro-inflammatory and Fibrotic Factors and May Contribute to Alzheimer'S-related Dementias****Paige N Mims**, Sheshank Shekhar, Shaoxun Wang, Olivia Travis, **Fan Fan**, Univ of Mississippi Medical Ctr, Jackson, MS
- P121 Dipper Pattern and Albuminuria in Controlled and Uncontrolled Hypertensive Patients****Nelson Dinamarco**, Mateus Kist Ibiapino, Gabriela Ticle Monteiro, Barbara Esposito Carvalho, Bernardo Pires Sampaio, Vanessa Brito Carvalho, Marileide Dinamarco, Frida Liana Plavink, UESC, Iheus, Brazil
- P122 Plasma Circulating microRNAs as Potential Biomarkers in Chronic Kidney Disease****Olga Berillo**, Ku-Geng Huo, Júlio C. Fraulob-Aquino, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Chantal Richer, Res Ctr, CHU Ste-Justine, Montreal, QC, Canada; Asia Rehman, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Marie Briet, INSERM U1083, CNRS UMR 6214, Ctr Hospo-Univire d'Angers, Univ d'Angers, Angers, France; Pierre Boutouyrie, Univ Paris-Descartes, INSERM U970 and Assistance Publique-Hôpitaux de Paris, Hôpital Européen Georges Pompidou, Paris, France; Mark L. Lipman, Lady Davis Inst for Medical Res, Sir Mortimer B. Davis-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Daniel Sinnett, Res Ctr, CHU Ste-Justine, Univ de Montréal, Montreal, QC, Canada; Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L. Schiffrin, Lady Davis Inst for Medical Res, Sir Mortimer B. Davis-Jewish General Hosp, McGill Univ, Montreal, QC, Canada
- P123 Obesity and Alterations in Renal Function in Adolescents Born Preterm With Very Low Birth Weight****Andrew Michael South**, Patricia A. Nixon, Mark C. Chappell, Debra I. Diz, Gregory B. Russell, Elizabeth T. Jensen, Hossam A. Shaltout, Lisa K. Washburn, Wake Forest Sch of Med, Winston Salem, NC
- P124 Role of Add3 Dysfunction in Renal Epithelial Cells in the Development of Renal Injury in Fhh Rats****Bibek Poudel**, Fan Fan, Shaoxun Wang, Richard J Roman, The Univ of Mississippi Med, Jackson, MS
- P125 RNA Sequencing of Left-ventricular Tissue Highlights Novel Pathways Impacted by the Loss of miR-146b-5p in a Rat Model of Chronic Kidney Disease****Mark R. Paterson**, Pengyuan Liu, Alison J. Kriegel, Medical Coll of Wisconsin, Milwaukee, WI
- P126 Regulation of Short Chain Fatty Acid Receptors in the Kidney by microRNAs is Influenced by Hydrogen Sulfide Supplementation****Gregory Weber**, Sathnur Pushpakumar, Utpal Sen, Univ of Louisville, Louisville, KY
- P127 Chromogranin A Pathway: From Pathogenic Molecule to Renal Disease****Sucheta M Vaingankar**, Saiful A Mir, Nilima Biswas, Nicholas Webster, Daniel T. O'Connor, Univ of California, San Diego, La Jolla, CA
- P128 Intensive Blood Pressure Management in Chronic Kidney Disease Patients: An Analysis of the SPRINT Dataset**
Haares Mirzan, Rahul Aggarwal, Nicholas Chiu, Sang Myung Han, Kimberly Lu, **Jason Park**, Benjamin Petrie, Jackson Steinkamp, Boston Univ, Boston, MA
- P129 Antihypertensive Drugs and Risk of Cancer: A Systematic Review and Meta-Analysis of 391, 790 Patients****Nur A Che Roos**, Safaa M Alsanosi, Mohammed A Alsieni, Mayetri Gupta, Sandosh Padmanabhan, Univ of Glasgow, Glasgow, United Kingdom
- P130 A Map of SPRINT's Data-free Zone****Luke Joseph Laffin**, Stephanie A Besser, Francis J Alenghat, Univ of Chicago Med, Chicago, IL
- P131 The Acute Effect of the Creatine Kinase Inhibitor Beta-GPA in Healthy Man (ABC-Trial): A Randomized Placebo Controlled First-in-human Trial****Fares A Karamat Male**, Doortje L Horjus Female, Yentl C Haan Female, Gert A van Montfrans Male, Academic Medical Ctr Amsterdam, Amsterdam, Netherlands; Gajja S Salomons Femal, Dept of Clinical Chemistry, VU Univ Medical Ctr, Amsterdam, Netherlands; Joseph F Clark Male, Cincinnati

- Children's Hosp, Cincinnati, Ohio, USA, Cincinnati, Ohio, USA, OH; Lizzy M Brewster Female, Academic Medical Ctr Amsterdam, Amsterdam, Netherlands
- P132 **Increased Cardiovascular Parasympathetic Tone in African Americans With CD36 Partial Deficiency**
Shahram Ejtemaei Mehr, Vanderbilt Univ Medical Ctr, Brentwood, TN
- P133 **Angiotensin-(1-7) Does Not Acutely Lower Blood Pressure in Patients With Essential Hypertension**
Amy Christine Arnold, Penn State Coll of Med, Hershey, PA; Jorge E Celedonio, Sachin Y Paranjape, Italo Biaggioni, Alfredo Gamboa, Vanderbilt Univ Medical Ctr, Nashville, TN
- P134 **Increased Gut Permeability and Dysbiosis in Patients With Pulmonary Arterial Hypertension**
Ruby Goel, Seungbum Kim, Univ of Florida, Gainesville, FL; Katya Rigatto, Federal Univ of Health Sciences of Porto Alegre, Porto Alegre, Brazil; Brian Shapiro, Jordan Ray, Mayo Clinic, Jacksonville, FL; Yanfei Qi, Univ of Florida, Gainesville, FL; Marcelo B Gazzana, Marli M Knorst, Federal Univ of Rio Grande do Sul, Porto Alegre, Brazil; Elaine M Richards, Ravindra K Sharma, Carl J Pepine, Mohan K Raizada, Univ of Florida, Gainesville, FL
- P135 **Is Heart Failure With Preserved Ejection Fraction A Gut Disorder?**
YanFei Qi, Ruby Goel, Avinash Singh Mandloi, Seungbum Kim, Gilberto O Lobaton, Victor P Aquino, Dana D Leach, Eileen Mary Handberg, Mohan K Raizada, Carl J Pepine, Univ of Florida, Gainesville, FL
- P136 **Ischemic Evaluation in Patients With Hypertensive Emergency / Urgency and Acute Systolic Heart Failure: Is Coronary Angiography Required for All?**
Jared W Davis, Muhannad Almubarak, Samuel K McElwee, Amrita Mukherjee, Firas Al-Solaiman, Mark F Sasse, Massoud A Leesar, Arka Chatterjee, Univ of Alabama at Birmingham, Birmingham, AL
- P137 **Intrauterine Growth Restriction Programs a Greater Age-related Decline in Renal Function Associated With Increased Susceptibility to Chronic Renal Injury**
Ashley D. Newsome, Gwendolyn K. Davis, Norma B. Ojeda, Barbara T. Alexander, Univ of Mississippi Medical Ctr, Jackson, MS
- P138 **Alterations in Cardiac Structure and Function in Young Adults Born Extremely Preterm: Impact of Neonatal Bronchopulmonary Dysplasia**
Muhammad Oneeb Rehman Mian, Jean-Luc Bigras, Rafael Fernandes, Mariane Bertagnolli, Li Feng Xie, Katryn Paquette, Rong Wu, Anik Cloutier, Valerie Orlando, Thuy Mai Luu, Anne Monique Nuyt, CHU Sainte-Justine, Montreal, QC, Canada
- P139 **Dual Angiotensin Receptor and Neprilysin Inhibition Improves Renal Hemodynamics and Reduces Kidney Damage in Diabetic Rats**
Estrellita Uijl, Marian C Clahsen-van Groningen, Erasmus MC, Rotterdam, Netherlands; Jaap A Joles, Univ Medical Ctr Utrecht, Utrecht, Netherlands; Ewout J Hoorn, Alexander H Danser, Erasmus MC, Rotterdam, Netherlands
- P140 **Serum Chloride Predicts Mortality Risk in Type 2 Diabetes - Analysis of 91,159 Patients From the West of Scotland**
Linsay McCallum, Univ of Glasgow, Glasgow, United Kingdom; Christopher A Sainsbury, Gregory C Jones, NHS Greater Glasgow and Clyde, Glasgow, United Kingdom; Sandosh Padmanabhan, Univ of Glasgow, Glasgow, United Kingdom
- P141 **Fetuin B, a Hepatokine, Causes Acute Endothelium-dependent Vascular Relaxation and Decrease Blood Pressure**
Lucas O Martins França, Youhua Zhang, New York Inst of Technology, Old Westbury, NY; Antonio Marcus de Andrade Paes, Federal Univ of Maranhao, Sao Luis, Brazil; Maria Alicia Carrillo-Sepulveda, New York Inst of Technology, Old Westbury, NY
- P142 **The CKD273 Urinary Peptidomic Biomarker is Associated with Mortality in People at Early Stages of Diabetic Nephropathy Independent of Traditional Risk Factors**
Gemma E Currie, Sheon Mary, Univ of Glasgow, Glasgow, United Kingdom; Bernt J von Scholten, Morten Lindhardt, Steno Diabetes Ctr Copenhagen, Copenhagen, Denmark; Harald Mischak, Mosaiques Diagnostics GmbH, Hannover, Germany; William Mullen, Univ of Glasgow, Glasgow, United Kingdom; Peter Rossing, Steno Diabetes Ctr Copenhagen, Copenhagen, Denmark; Christian Delles, Univ of Glasgow, Glasgow, United Kingdom
- P143 **Pulsatile Stress in the Hypertensive Elderly versus Young Patients**
Abimbola Shofu, May Saung, G. Mustafa Awan Bassam Omar, Christopher Malozzi, Univ of South Alabama, Mobile, AL
- P144 **Association Between Hypertension and Thyroid Abnormalities Among Hospitalized United States Patients: Data From National Inpatient Sample**
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- P145 Screening Rates for the Diagnostic Workup of Resistant Hypertension**
Gilad M Jaffe, Stanford Hypertension Ctr, Dept of Med, Stanford Univ Sch of Med, Stanford, CA; Gomathi Krishnan, Stanford Ctr for Clinical Informatics, Stanford Univ Sch of Med, Stanford, CA; Margaret Stedman, Glenn M Chertow, Stanford Hypertension Ctr, Dept of Med, Stanford Univ Sch of Med, Stanford, CA; John T Leppert, Div of Nephrology, Dept of Med, Stanford Univ Sch of Med; and Veterans Affairs Palo Alto Health Care System, Palo Alto, CA; Vivek Bhalla, Stanford Hypertension Ctr, Dept of Med, Stanford Univ Sch of Med, Stanford, CA
- P146 Uric Acid is an Independent Risk Factor for Developing Hypertension From Prehypertension: A 5-year Japanese Cohort Study**
Masanari Kuwabara, Shigeko Hara, Toranomon Hosp, Tokyo, Japan; Koichiro Niwa, St. Luke's Intl Hosp, Tokyo, Japan; Minoru Ohno, Toranomon Hosp, Tokyo, Japan; Ichiro Hisatome, Tottori Univ, Tottori, Japan
- P147 Differences in the Treatment of Resistant Hypertension in African Americans and European Americans in a Clinical Setting**
Megan M Shuey, Vanderbilt Univ, Nashville, TN; Nancy J Brown, Joshua C Denny, Vanderbilt Univ Medical Ctr, Nashville, TN
- P148 Effect of Apparent Treatment Resistant Hypertension on Cardiovascular Disease Events and Modification by Sex**
Julianne Nelson, Longjian Liu, Drexel Univ, Philadelphia, PA
- P149 Maintenance of Optimal Health Behaviors Over 25 Years and Cumulative Blood Pressure Burden: Prospective Data From the Coronary Artery Risk Development in Young Adults Study**
John N Booth, Univ of Alabama at Birmingham, Birmingham, AL; Norrina B Allen, Northwestern Univ, Birmingham, AL; April P Carson, David Calhoun, Univ of Alabama at Birmingham, Birmingham, AL; Daichi Shimbo, Columbia Univ, New York, NY; James M Shikany, Cora E Lewis, David T Redden, Paul Muntner, Univ of Alabama at Birmingham, Birmingham, AL
- P150 Sex Difference of Hypertension in Spontaneously Hypertensive Rats: Role of Mitochondrial Oxidative Stress**
Rodrigo Oscar Maranon, Carolina Dalmasso, Chetal N. Patil, Jane F. Reckelhoff, UMMC, Jackson, MS
- P151 Salt Sensitivity in Male and Female C57BL/6J Mice: Role of Renal Angiotensin and Dopamine Receptors and Sodium Transporters**
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- P152 Female Mice Are Not Protected From High Fat Diet-induced Metabolic Dysfunction**
Taylor Friemel, Justin Loloi, Sarah S Bingaman, Amy Christine Arnold, Penn State Coll of Med, Hershey, PA
- P153 Mineralocorticoid Receptor Inhibition Abolishes Sex-specific, Renin Angiotensin Aldosterone System-associated Salt Sensitivity in Female Mice**
Jessica L Faulkner, Simone Kennard, Daisy Harwood, Galina Antonova, Jane Morwitzer, Eric J Belin de Chantemele, Augusta Univ, Augusta, GA
- P155 Renal Responses to Experimental Angiotensin II Induced Hypertension (Ang-HTN) in Female Rats**
Luciana C Veiras, Jessica Prescott, Donna Ralph, Alicia McDonough, Keck Sch of Med USC, Los Angeles, CA
- P156 Estrogen Regulation of Endothelin-B Receptor Mediated Vasodilation**
Katherine Haigh, Ronald F. Feinberg, Univ of Delaware, Newark, DE; Hugh S. Taylor, Yale Univ Sch of Med, New Haven, CT; Megan M. Wenner, Univ of Delaware, Newark, DE
- P157 Genetic Stratification of Cardiovascular Risk in Patients With Arterial Hypertension**
Vadym Nicolajevich Bondar V, Kateryna Chernyshova, Helen Kobeleva, Viktoria Tbileli, Yegor Maznichenko, Odessa Natl Medical Univ, Odessa, Ukraine
- P158 MicroRNA Profiling in Peripheral Blood Mononuclear Cells From Hypertensive Patients With or Without Chronic Kidney Disease**
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- P159 MicroRNA Profiling in Small Resistance Arteries of Hypertensive Patients With or Without Chronic Kidney Disease**
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- P160 A Genome-spanning Map of Chromatin Structure Near the Renin Proximal Promoter**
Timothy Stodola, Pengyuan Liu, Yong Liu, Andrew Vallejos, Aron Geurts, Andrew Greene, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- P161 Inhibition of Class I HDAC Enhances the Expression of *Npr1* and Repairs Renal Pathology in Gene-targeted Haplotype Mice**
Purna Kumar, Venkateshwara R. Gogulamudi, Christian Nguyen, Ramachandran Samivel, Kailash N. Pandey, Tulane Univ, New Orleans, LA
- P162 *In vivo* miR-431 Inhibition Protects Against Vascular Damage and Hypertension**
Ku-Geng Huo, Julio C. Fraulob-Aquino, Tlili Barhoumi, Lady Davis Inst, Montreal, QC, Canada; Chantal Richer, Div of Hematology-Oncology, Res Ctr, CHU Ste-Justine, Montreal, QC, Canada; Suellen C. Coelho, Sofiane Ouerd, Antoine Caillon, Lady Davis Inst, Montreal, QC, Canada; Mathieu Lajoie, Daniel Sinnett, Div of Hematology-Oncology, Res Ctr, CHU Ste-Justine, Montreal, QC, Canada; Pierre Paradis, Ernesto L. Schiffrin, Lady Davis Inst, Montreal, QC, Canada
- P167 Aging Exacerbates Increased MAP and Proteinuria in Male Rat Offspring of Hyperandrogenemic Mothers**
Carolina Dalmasso, Rodrigo O. Maranon, Chetan N. Patil, Jane F. Reckelhoff, UMMC, Jackson, MS
- P168 Prevalence of Spontaneous Hypertension in African Green Monkeys is Age-related**
Megan K Rhoads, Jeffrey Osborn, Univ of Kentucky, Lexington, KY
- P169 Difference of Risk Factors for Controlled Blood Pressure in Three Types of Heart Failure**
Hong Seok Lee, New York Medical Coll, Univ of California Riverside, New York, NY; Nunez Belen, New York Medical Coll, New York, Riverside, NY; Hans Cativo, Amrut Savadkar, Visco Ferdinand, Savi Mushiyevev, Gerald Pekler, New York Medical Coll, New York, NY
- P170 Hypertensive Pattern After Kidney Transplantation**
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- P171 Smaller Body Mass Index is Associated With Mild Cognitive Impairment in Elderly Hypertensive Patients**
Yoshihiro Saito, Joji Ishikawa, Ayumi Toba, Ayumi Suzuki, Yoshiaki Tamura, Atsushi Araki, Kazumasa Harada, Tokyo Metropolitan Geriatric HP, Tokyo, Japan
- P172 Methylation of Mitochondrial Genes and Mitochondrial Damage in Aged Kidney of Hypertensive Mice**
Lu Ren, Utpal Sen, Sathnur Pushpakumar, Univ of Louisville, Louisville, KY
- P173 Target Blood Pressure in Elderly Hypertensive Patients: A Korean National Health Insurance Service Health Examinee Cohort Study**
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- P174 Free Triiodothyronine Level Correlates with Statin Responsiveness in Acute Myocardial Infarction**
Kuo Zhang, Wenyaoy Wang, Fuwai Hosp, Beijing, China; A. Martin Gerdes, New York Inst of Technology, Old Westbury, NY; Yi-Da Tang, Fuwai Hosp, Beijing, China
- P175 Chronic Exercise Attenuates Blood Pressure Elevation and Albuminuria With Improvement of Renal Lipid Metabolism in High Fructose-fed Rats**
Gaizun Hu, Graduate Sch of Med, Tohoku Univ, sendai, Japan; Osamu Ito, Tohoku Medical and Pharmaceutical Univ, sendai, Japan; Lusi Xu, Graduate Sch of Med, Tohoku Univ, sendai, Japan
- P176 A New Function for Adipocytes: Norepinephrine Storage**
Maleeha Ahmad, Michigan State Univ, East Lansing, MI; Nadia Ayala-Lopez, Yale Univ, New Haven, CT; Emma Darios, Stephanie W. Watts, Michigan State Univ, East Lansing, MI
- P177 Intermittent Hypoxia Attenuates Corticotropin-Releasing Hormone Receptor 2 (CRHR2) mRNA and CRHR2-Mediated Calcium Influx in Neurons in the Nucleus of the Solitary Tract**
Lei Wang, Steve Mifflin, UNT Health Science Ctr, Fort Worth, TX

- P178 **The Role of Lateral Hypothalamic Leptin Signaling in Metabolic and Cardiovascular Regulation**
Huxing Cui, Eva Rodriguez Cruz, Univ of Iowa, Iowa City, IA
- P179 **Pulmonary Spinal Sympathetic Afferent Activation in Post-myocardial Infarction Rats**
Julia Shanks, Zhiqiu Xia, George J Rozanski, Harold D Schultz, Steven J Lisco, Irving H Zucker, Han-Jun Wang, UNMC, Omaha, NE
- P180 **Blood Pressure Lowering During Chronic Baroreflex Activation: Don't Forget the Heart**
John S. Clemmer, Thomas E. Lohmeier, Univ of Mississippi Medical Ctr, Jackson, MS; Radu Iliescu, Gr. T. Popa Univ of Med and Pharmacy, Iasi, Romania; W. Andrew Pruett, Robert L. Hester, Univ of Mississippi Medical Ctr, Jackson, MS
- P181 **Contrasting Effects of High Fat Diet and DOCA-salt on Primary Neuronal Cilia**
Jingwei Jiang, Kamal Rahmouni, Univ of Iowa, Iowa City, IA
- P182 **Chronic Central Melanocortin 4 Receptor Blockade Does Not Prevent Cardiac Dysfunction After Myocardial Infarction in Rats**
Fabio Gava, UMMC, Jackson, MS; Alexandre A da Silva, Organizacao Educacional Barao de Maua, Ribeirao Preto, Brazil; Jussara M do Carmo, UMMC, Jackson, MS
- P183 **Influence of Insufficient Sleep on Endothelial Fibrinolytic Capacity in Adults With Elevated Blood Pressure**
Anthony R Bain, Caitlin A Dow, Kyle J Diehl, Tyler D Bammert, Jared J Greiner, Univ of Colorado, Boulder, CO; Brian L Stauffer, Univ of Colorado Anschutz Medical Ctr, Denver, CO; Christopher A DeSouza, Univ of Colorado, Boulder, CO
- P184 **Muscarinic Receptor Modulators' Effect on Cilia Structure and Nitric Oxide Release**
Wissam A AbouAlaiwi, Hayley Gibson, Univ of Toledo, Toledo, OH
- P185 **Prognostic Value of Endothelial Markers in Hypertensive Nondiabetic Patients**
Natalia Murashko, Anna Bragina, Galina Bragina, Valery Podzolkov, I.M. Sechenov First Moscow State Medical Univ, Moscow, Russian Federation
- P186 **Selective ET_A Receptor Antagonism versus Dual ET_A/ET_B Receptor Blockade for Preventing Angiogenesis Inhibitor-induced Hypertension**
Katrina M Mirabito Colafella, Richard van Veghel, Renè de Vries, Jorie Versmissen, Anton H van den Meiracker, A. H. Jan Danser, Erasmus MC, Rotterdam, Netherlands
- P187 **Nitric Oxide Function in Postural Tachycardia Syndrome During High and Low Sodium Diets**
Jorge E Celedonio, Victor C Nwazue, Emily M Garland, Cyndya A Shibao, Luis E Okamoto, Italo Biaggioni, Satish R Raj, Alfredo Gamboa, Vanderbilt Univ Medical Ctr, Nashville, TN
- P188 **Nephron-wide Deletion of Nos3 Impairs Salt Excretion and Causes Hypertension**
Yang Gao, Deborah Stuart, Univ of Utah Health Sciences Ctr, Salt Lake City, UT; Takamune Takahishi, Div of Nephrology, Vanderbilt Univ, Nashville, TN; Donald E. Kohan, Univ of Utah Health Sciences Ctr, Salt Lake City, UT
- P189 **Endothelial Cullin3 Mutation Causes Vascular Dysfunction, Arterial Stiffening, and Hypertension**
Jing Wu, Larry N Agbor, Shi Fang, Chunyan Hu, Ko-Ting Lu, Xuebo Liu, Masashi Mukohda, Anand R Nair, Curt D Sigmund, Univ of Iowa, Iowa City, IA
- P190 **Long-term Intake of Muscadine Grape Extract Markedly Improves Exercise Capacity in Older Female (mRen2)27 Hypertensive Rats**
A'ja V. Duncan, Wayne Graham, Liliya Yamaleyeva, Patricia E Gallagher, E. Ann A Tallant, Mark C Chappell, Debra I Diz, Wake Forest Sch of Med, Winston-Salem, NC
- P191 **Improved Systolic and Diastolic Blood Pressure After Enhanced External Counterpulsation Therapy Combined With a Lifestyle Modification Program**
Murtaza Bharmal, Michael Share, Cedars Sinai Medical Ctr, Los Angeles, CA; Sara Soulati, Dean Chiaro, Sara Soulati Health for Life Program, Los Angeles, CA; Ronald Weaver, GlobalCardioCare, Los Angeles, CA; Ronald Victor, Timothy Henry, Cedars Sinai Medical Ctr, Los Angeles, CA
- P192 **Psychosocial Correlates of Adherence to Non-pharmacological Therapy: An Examination of Baseline Results From the SisterTalk Adhere Intervention for Black Women**
Augustine W Kang, Patricia M Risica, Brown Univ, Providence, RI
- P193 **Anti-fibrotic and Anti-oxidant Actions of a Muscadine Grape Extract Supplement on Hypertension-induced Cardiac Damage**
Pooja D Patil, Brian M Westwood, Patricia E Gallagher, E. Ann Tallant, Wake Forest Sch of Med, Winston-Salem, NC
- P194 **High Intensity Interval Training Protects the Heart**
Nevena Jeremic, Nicholas Todd Theilen, Gregory J Weber, Univ of Louisville, Louisville, KY; Vladimir Zivkovic, Ivan Srejovic, Vladimir Jakovljevic, Univ of Kragujevac, Kragujevac, Serbia; Suresh Chand Tyagi, Univ of Louisville, Louisville, KY
- P195 **Digital Health Tool Use and Outcomes in People With Uncontrolled Hypertension**
Conor Senecal, Robert J Widmer, Amir Lerman, Mayo Clinic, Rochester, MN

- P196 Effect of Combined Oral Intake of Ginger Extract and Rice Vinegar on Blood Pressure with 2-kidney,1-clip Renovascular Hypertensive Rats**
Natsumi Saito, Yukiko Segawa, Saki Maruyama, Ayuna Yamaoka, Kobe Women's Univ, Kobe, Japan; Hiroko Hashimoto, Osaka Seikei Junior Coll, Osaka, Japan; Tomoko Osera, **Nobutaka Kurihara**, Kobe Women's Univ, Kobe, Japan
- P197 Vitamin D, Parathormone and Cardiovascular Risk: The Good, the Bad and the Ugly**
Rocco Giannotti, Valeria Pascale, Rosa Finelli, Valeria Visco, Ida Matula, Univ of Salerno, Salerno, Italy; Nicola Ragosa, ASL Salerno, Vallo della Lucania, Italy; Angelo massari, Univ of Salerno, Salerno, Italy; Maria G Di Sevo, ASL Salerno, Polla, Italy; Michele Ciccarelli, Guido Iaccarino, Univ of Salerno, Salerno, Italy
- P198 Combination of Undaria Pinnatifida Sporophyll and Vinegar Remarkably Decreases Blood Pressure in 2-kidney, 1-clip Renovascular Hypertensive Rats**
Saki Maruyama, Yukiko Segawa, Natsumi Saito, Ayuna Yamaoka, Kobe Women's Univ, Kobe, Japan; Hiroko Hashimoto, Osaka Seikei Junior Coll, Osaka, Japan; Tomoko Osera, **Nobutaka Kurihara**, Kobe Women's Univ, Kobe, Japan
- P199 Higher Circulating Triglycerides are Independently Associated With Greater Short-term Blood Pressure Variability in Middle-aged/older Adults With Obesity**
Rachel E. Luehrs, Graziela Z. Kalil, Seth W. Holwerda, Nealy A. Wooldridge, Jess G. Fiedorowicz, Lyndsey E. DuBose, Melissa M. Rader, Gary L. Pierce, The Univ of Iowa, Iowa City, IA
- P200 Post-transplant Weight Control and Hypertension After Kidney Transplantation**
Ekamol Tantisattamo, Oakland Univ William Beaumont Sch of Med, Royal Oak, MI; Possawat Vutthikraivit, Phramongkutklao Coll of Med, Mahidol Univ, Bangkok, Thailand; Haritha Mopuru, Multi-Organ Transplant Ctr, William Beaumont Hosp, Royal Oak, MI
- P201 Prevalence of Metabolic Syndrome in Hypertensive Patients**
Nirankar Singh Neki, Jaswinder Singh Student, Govt Medical Coll, Amritsar Punjab, India
- P202 The Metabolic Syndrome and Shift Work Among firefighters in South Korea**
Jee eun Choi, Mun-Joo Bae, Sungha Park, Yonsei Univ, Seoul, Korea, Republic of; Ki-Soo Park, Gyeongsang Natl Univ, Gyeongsangnam-do, Korea, Republic of; Changsoo Kim, Yonsei Univ, Seoul, Korea, Republic of
- P203 pNaktide Targeted to Adipocytes Inhibits Na/k-ATPase Reactive Oxygen Species, Systemic Inflammation, and Obesity Development in Mice Fed a Western Diet (WD)**
Rebecca Martin, Cameron Brickman, Jiang Liu, Komal Sodhi, Joseph I. Shapiro, Marshall Univ JCESOM, Huntington, WV
- P204 Gender-specific Relationships Between Plasma Levels of Endocannabinoids and Vagal and Sympathetic Control of Heart Rate in Normotensive Obese Older Adults**
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- P205 Short-term Western Diet Induced Hypertension in Female Rats is Associated With Vascular Epigenetic Modification**
Benjamin Kramer, Kuo Zhang, Youhua Zhang, A. Martin Gerdes, Maria Alicia Carrillo-Sepulveda, NYIT Coll of Osteopathic Med, Old Westbury, NY
- P206 Anti-hyperglycemic Effects of Angiotensin-II Type 2 Receptor Activation by C21 in High Sodium Diet Fed Obese Zucker Rats**
Sanket N Patel, Quaisar Ali, Tahir Hussain, Univ of Houston Coll of Pharmacy, Houston, TX
- P207 Zeta Potential of Erythrocyte Membranes and Hypertension Characteristics in Patients With Metabolic Syndrome**
Mariya G. Sapacheva, Mikhail V. Pisarev, Tatyana V. Koroleva, Valery I. Podzolkov, First Sechenov Moscow State Medical Univ, Moscow, Russian Federation
- P208 N-acetyl-seryl-aspartyl-lysyl-proline (acsdkp) Reduces High Salt- induced Hypertension and Kidney Damage in Obesity**
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- P209 Mechanistic Target of Rapamycin Complex 1 (mTORC1) Signaling Generates Reactive Oxygen Species in Mouse Endothelial Cells via NFkB Signaling**
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- P211 Intra-abdominal Lipectomy Normalizes Arterial Stiffness and Blood Pressure via Reduction in 20-HETE**
Amanda A Soler, Brenda Hutcheson, Jenny Yang, New York Medical Coll, Valhalla, NY; Chastity Bradford, Tuskegee Univ, Tuskegee, AL; Frank F Zhang, Katie H Gotlinger, Michal L Schwartzman, Petra Rocić, New York Medical Coll, Valhalla, NY
- P212 Right Atrial Volume - A Predictor for Atrial**

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P213 Metabolic and Cardiovascular Effects of Melanocortin-4 Receptors in Leptin Receptor-expressing Neurons

Eva N Rodriguez Cruz, Kamal Rahmouni, Huxing Cui, Univ of Iowa, Iowa City, IA

P214 Shotgun Metagenomic Analysis of Fecal Microbiome Reveals Profound Functional Differences in Patients with Hypertension

Seungbum Kim, Elaine M Richards, Yanfei Qi, Mohammed Mohammed, Eileen M Handberg, Carl J Pepine, Mohan K Raizada, Univ of Florida, Gainesville, FL

P215 NADPH Oxidase Dependent Oxidative Stress and Redox Sensitive MAPKs Contribute to the Mechanisms of Acupuncture in Rostral Ventrolateral Medulla of Spontaneously Hypertensive Rats

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P216 Nicotinamide Nucleotide Transhydrogenase Regulates Mitochondrial Redox Balance and Endothelial Function in Response to Angiotensin II

Matthew Vetkoetter, Shashanka Rao K N, Xinggui Shen, Sibile Pardue, **David M Krzywanski**, LSU Health Sciences Ctr, Shreveport, LA

P217 Nox Compartmentalization, Protein Oxidation and ER Stress in Vascular Smooth Muscle Cells in Hypertension

Livia L Camargo, Augusto C Montezano, Adam Harvey, Sofia Tsiropoulou, Katie Hood, Zhenbo Cao, Richard Burchmore, Richard Hartley, Neil Bulleid, Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom

P218 Role of UCP2 on Mitochondrial Dysfunction and Blood Pressure Regulation in the Renal Oxidative Stress-mediated Hypertension Associated With Dj-1 Depletion

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P219 Vascular Cross-talk Between Redox and Calcium Signaling in Hypertension Involves Transient Receptor Potential Melastatin 2 Channel Activation

Rhéure Alves-Lopes, Augusto C Montezano, Karla B Neves, Aikaterini Anagnostopoulou, Silvia Lacchini, Rhian M Touyz, Univ of Glasgow, Glasgow, United Kingdom

P220 Perception of Blood Pressure Control and Satisfaction with Hypertension Care in the Rural Setting

Harini Bejjanki, Yan Gong, Univ of Florida, Gainesville, FL; David Willis, Heart of Florida Health Ctr, Ocala, FL; Kendra Siler-Marsiglio, WellFlorida Council, Gainesville, FL; Eileen Handberg, Univ of Florida, Gainesville, FL; Daniel Haight, Univ of South Florida and Lakeland Regional Health, Lakeland, FL; Steven Smith, Carl Pepine, Rhonda Cooper-DeHoff, Univ of Florida, Gainesville, FL

P221 Rural Living May Mean "Pressure Up": Investigating the Negative Impact of Rurality on Hypertension Control

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P222 Prevalence of Hypotension in Adolescents

Jyoti Bhatia-Barnes, UT McGovern Medical Sch, Houston, TX; Monisha Gupta, Johns Hopkins All Children's Hosp, St. Petersburg, FL; Cynthia Bell, Josuha Samuels, UT McGovern Medical Sch, Houston, TX

P223 The ω -oxidation Pathway Underlies Hexadecanedioate Induced Blood Pressure Elevation

Nora Hassan Alharbi, Martin W. McBride, Sandosh Padmanabhan, Delyth Graham, Glasgow university, Glasgow, United Kingdom

P224 β -arrestin2 Stimulates SERCA2a SUMOylation and Activity in Cardiac Myocytes to Promote Contractility

Katie A McCrink, Jennifer Maning, Ava Brill, Angela Vu, Nova Southeastern Univ, Fort Lauderdale, FL; Walter J Koch, Temple Univ, Philadelphia, PA; Anastasios Lymperopoulos, Nova Southeastern Univ, Fort Lauderdale, FL

P225 Non-invasive Measurement of Renal Blood Flow (RBF) in Different Rat Models by Magnetic Resonance Imaging (MRI)

Cesar A Romero, Robert Knight, Glauber Cabral, Oscar A Carretero, Henry Ford Health System, Detroit, MI

P226 Aggressive Blood Pressure Control Status Post-acute Aortic Dissection May be Associated With Acute Kidney Injury: A Pilot Study

Charles Hopley, T. Brett Reece, Willaim Hiatt, Univ of Colorado Sch of Med, Aurora, CO

- P227 **Prostaglandin EP₄ Receptor Mediate Angiotensin II-induced Hypertension via Activation of PRR/ENaC Pathway**
Xiaohan Lu, Fei Wang, Kevin Yang, Kexin Peng, Tianxin Yang, Univ of Utah, Salt Lake Cty, UT
- P228 **Chronically Enhanced Fructose Intake Induces Salt Sensitive Hypertension in Mice and Increases NKCC2 Phosphorylation**
Kamal Mohamed-Ayed Kassem, Pamela Harding, Pablo Ortiz, Henry Ford Hosp, Detroit, MI
- P229 **cGMP Stimulates Ubiquitination and Degradation of NKCC2 in Thick Ascending Limbs**
Gustavo R Ares Sr., Henry Ford Health System, Detroit, MI
- P230 **Uncoupling of NOS3 is Involved in Diminished Flow-induced No Production in Dahl Salt-sensitive Rat Thick Ascending Limbs**
Nancy J Hong, Agustin Gonzalez-Vicente, Jeffrey L Garvin, Case Western Reserve Univ, Cleveland, OH
- P231 **Offspring of Captopril Treated Spontaneously Hypertensive Rats Have Lower Angiotensin II Type 1 Receptor Expression Which is Associated With Lower Blood Pressure**
J X Masjoan-Juncos, Tang-Dong Liao, Ginette Bordcoch, Cesar A Romero, Oscar A Carretero, Henry Ford Hosp, Detroit, MI
- P232 **Superoxide Increases Renin Activity, Renal Angiotensin II Type 1 Receptor (at1r) Function and Blood Pressure in Rats**
Xitao Wang, Mohammad Asghar, Mohammad Saleem, Univ of Houston, Houston, TX
- P233 **Mas Receptor Deficiency Does Not Impair Cognitive Function of Vascular Dementia Model in the Presence of Angiotensin II Type 2 Receptor**
Akinori Higaki, Masaki Mogi, Jun Iwanami, Li-Juan Min, Harumi Kan-no, Hui-Yu Bai, Bao-shuai Shan, Dept of Molecular Cardiovascular Biology and Pharmacology, Ehime Univ, Graduate Sch of Med, Toon City, Ehime Prefecture, Japan; Masayoshi Kukida, Dept of Cardiology, Pulmonology, Hypertension & Nephrology, Ehime Univ Graduate Sch of Med, Toon City, Ehime Prefecture, Japan; Toshihiro Yamauchi, Ehime Univ, Graduate Sch of Med, Toon City, Ehime Prefecture, Japan; Takafumi Okura, Jitsuo Higaki, Dept of Cardiology, Pulmonology, Hypertension & Nephrology, Ehime Univ Graduate Sch of Med, Toon City, Ehime Prefecture, Japan; Masatsugu Horiuchi, Ehime Univ, Graduate Sch of Med, Toon City, Ehime Prefecture, Japan
- P234 **2-Methoxyestradiol Attenuates Angiotensin II Induced Hypertension: A Novel Paradigm**
Yong Zhang, Benard Ogola, Laxmi Iyer, Vardan Karamyan, Thomas Thekkumkara, TTU Health Sciences Ctr, Amarillo, TX
- P235 **Renin and Prorenin Uptake by Human Conditionally Immortalized Proximal Tubule Epithelial Cells Involves Megalin and Mannose 6-phosphate Receptor**
Alexandre G Martini, Erasmus MC Univ, Rotterdam, Netherlands
- P236 **Site-1 Protease-derived Soluble (Pro) Renin Receptor Mediates Angiotensin II-induced Hypertension via Activation of Intrarenal Renin System**
Kexin Peng, Sun Yat-sen Univ, Guangzhou, China; Fei Wang, Chuanming Xu, Xiaohan Lu, Tianxin Yang, Univ of Utah, Salt Lake City, UT
- P237 **The At2 Receptor Agonist, C21, Can Also Stimulate Mas and Mrgd Receptors**
Anja Tetzner, Maura Naughton, Kinga Gebolys, Univ Coll Cork, Dept of Pharmacology and Therapeutics, Cork, Ireland; Esther Sala, Óscar Villacañas, Intelligent Pharma, Barcelona, Spain; Thomas Walther, Univ Coll Cork, Dept of Pharmacology and Therapeutics, Cork, Ireland
- P238 **A New Fluorometric Method to Evaluate Efficiencies of Carboxy-terminal Phenylalanine Cleavage From Angiotensin II, Angiotensin III and Apelin Peptides**
Tilman Mueller, Jan Wysocki, Peter D Serfozo, Pan Liu, Minghao Ye, Jing Jin, Daniel Batlle, Northwestern Univ, Chicago, IL
- P239 **(Pro)Renin Receptor Contributes to Albumin Overload Nephropathy: Role of Site-1 Protease-Derived Soluble (Pro) Renin Receptor**
Hui Fang, Chuanming Xu, Aihua Lu, Chang-Jiang Zou, Shiyang Xie, Yanting Chen, Li Zhou, Mi Liu, Lei Wang, Weidong Wang, Tianxin Yang, Inst of Hypertension, Zhongshan Sch of Med, Guangzhou, China
- P240 **Decarboxylation of Ang-(1-7) to Ala¹-ang-(1-7) Leads to Major Changes in Pharmacodynamics**
Anja Tetzner, Maura Naughton, Kinga Gebolys, Dept. Pharmacology and Therapeutics, Sch of Med and Sch of Pharmacy, Univ Coll Cork (UCC), Cork, Ireland; Esther Sala, Óscar Villacañas, Intelligent Pharma, Barcelona, Spain; Thomas Walther, Dept. Pharmacology and Therapeutics, Sch of Med and Sch of Pharmacy, Univ Coll Cork (UCC), Cork, Ireland
- P241 **Autophagic Flux is Diminished in Mesenteric Resistance Arteries of Spontaneously Hypertensive Rats**
Cameron G McCarthy, Camilla F Wenceslau, R. Clinton Webb, Augusta Univ, Augusta, GA
- P242 **Nicotinic Acetylcholine Receptor Subunit $\alpha 7$ is Protective Against Angiotensin II-induced Aneurysm and Hypertension**
Nayaab S Khan, The Feinstein Inst for Medical Res, Manhasset, NY; Spyros Mavropoulos, Hofstra Northwell Sch of Med, Hempstead, NY; Kaie Ojamaa, The Feinstein Inst for Medical Res, Manhasset, NY

- P243 **Smooth Muscle Cullin-3 Deficiency Causes Severe Early Onset Hypertension and Nitric Oxide Resistance** **Larry N Agbor**, Anand Nair, Jing Wu, Deborah R Davis, Henry L Keen, Frederick W Quelle, Univ of Iowa, Iowa City, IA; James A McCormick, Oregon Health and Science Univ, Portland, OR; Jeffrey D Singer, Portland State Univ, Portland, OR; Curt D Sigmund, Univ of Iowa, Iowa City, IA
- P244 **Characterization of Exosomes From Vascular Endothelial and Smooth Muscle Cells** **Michael Boyer**, Satoru Eguchi, Victor Rizzo, Ariel Bagette, Rosario Scalia, Temple Univ, Philadelphia, PA
- P245 **Microrna-145-5p, a Potential Therapeutic Target of Regulating Vascular Calcification** **Abu S Ahmed**, Matilda H Sheng, David J Baylink, Loma Linda Univ, Loma Linda, CA
- P246 **Soluble (Pro)renin Receptor Induces Endothelial Cell Injury via Activation of Nox4/NF- κ B Pathway** **Ziwei Fu**, Jiajia Hu, Fei Wang, Jiahui Su, Xiaohan Lu, Sun Yat-sen Univ, Guangzhou, China; Tianxin Yang, Univ of Utah and Veterans Affairs Medical Ctr, Salt Lake City, UT
- P247 **Triiodothyronine Ameliorates Endothelial Dysfunction in Rats Following Acute Myocardial Infarction** **Kuo Zhang**, Yi-Da Tang, Fuwai Hosp, Beijing, China; Youhua Zhang, Ying Li, Olga Savinova, Kaie Ojamaa, A. Martin Gerdes, Maria Alicia Carrillo Sepulveda, New York Inst of Technology, Old Westbury, NY
- P248 **Novel Role of Axl Kinase in Endothelial Cell Proliferation and Pulmonary Arterial Hypertension** **Anastasia Gorelova**, Sanghamitra Sahoo, Patrick J Pagano, Univ of Pittsburgh, Pittsburgh, PA
- P249 **Effects of Lifestyle Changes on Metabolism and Early Vascular Lesion in Healthy People** **Xu Fengcheng**, Yu Chaoping, Liu Tianhu, Pidun District People's Hosp, Chengdu, China
- P250 **Comparison of Clinical Variables Independently Associated With Large Artery Stiffness and Microvascular Dysfunction in African-American Diabetic Patients** **Ayobami Eluwole**, Ajibola Adedayo, Fasika Tedla, Arye Kremer, Nicole Mastrogiiovanni, Mohammed Afzal, Carl Rosenberg, Paul Dreizen, John Larossa, Mohamed Boutjdir, Mary Ann Banerji, Clinton Brown, Moro Salifu, Ahmed Bakillah, Jason Lazar, Downstate Medical Ctr, Brooklyn, NY
- P251 **Relationship Between Reactive Hyperemia Index in Patients with Coronary Artery Disease With the Cardiac Function and Prognosis** **Liu Tianhu**, Yu Chaoping, Xu Fengcheng, Pidun District People's Hosp, Chengdu, China
- P252 **Hemochromatosis Induce Arterial Stiffness and Endothelial Dysfunction and They Can Be Effectively Reversed by Phlebotomy** **Mariano Duarte**, Analia Aquieri, Javier Coyle, Esteban Gonzalez Ballerga, Hosp de Clinicas Facultad de Medicina UBA, Buenos Aires, Argentina; Eleonora Savio Galimberti, Lankenau Inst for Medical Res, Philadelphia, PA; Carlos Reyes Toso, Catedra de Fisiologia Facultad de Medicina UBA, Buenos Aires, Argentina
- P253 **Relation Between Microvascular Function and Large Artery Stiffness in African American Diabetic Patients** **Ajibola M Adedayo**, Ayobami Eluwole, Fasika Tedla, Arye Kremer, Nicole Mastrogiiovanni, Mohammed Afzal, Carl Rosenberg, Paul Dreizen, John LaRosa, Mohamed Boutjdir, MaryAnn Banerji, Clinton Brown, Moro Salifu, Ahmed Bakillah, Jason Lazar, SUNY Downstate Medical Ctr, Brooklyn, NY
- P254 **Apolipoprotein Expression Changes in the Dahl Salt Sensitive Rat Model of Spontaneous Superimposed Preeclampsia** **Kenji J Maeda**, Ashley C Johnson, Michael R Garrett, Jennifer M Sasser, Univ of Mississippi Medical Ctr, Jackson, MS
- P255 **Association Between Maternal Preeclampsia and Neonatal Neurodevelopmental Delay - A Retrospective Trial** **Niraj Vora**, Lea Mallett, Ram Kalagiri, Nathan Drever, Venkata N Raju, Madhava Beeram, Mohammed Nasir Uddin, Baylor Scott and White Hosp, Temple, TX
- P256 **Vasopressin Infusion During Pregnancy in Mice Induces Early Histological Placental Phenotypes of Preeclampsia** **Jeremy A Sandgren**, Katherine N Gibson-Corley, Danny W Linggonegoro, Katherine J Perschbacher, Shao Yang Zhang, Sabrina M Scroggins, Guorui Deng, Nicole A Pearson, Donna A Santillan, Gary L Pierce, Mark K Santillan, Curt D Sigmund, Justin L Grobe, Univ of Iowa, Iowa City, IA
- P257 **Investigating Angiotensin II Infusion as a Model of Superimposed Preeclampsia in Pregnant Stroke Prone Spontaneously Hypertensive Rats** **Hannah L Morgan**, Elaine Butler, Elisabeth Beattie, Martin W McBride, Delyth Graham, Univ of Glasgow, Glasgow, United Kingdom
- P258 **Learning to Evaluate and Manage Antenatal Blood Pressure at Home** **Yoke Yin Lim**, INFANT Res Ctr, Cork, Ireland; Moises S Garcia, Gary Thompson, IBM, Dublin, Ireland; Mike Cuneen, Molly Mattsson, Paidi O'Reilly, Stephen McCarthy, INFANT Res Ctr, Cork, Ireland; Simon Woodworth, Cork Univ Business Sch, Cork, Ireland; Frederick Adam, Louise C Kenny, INFANT Res Ctr, Cork, Ireland

- P259 **Characterization of Hyperandrogenemic Female Rats With History of Pregnancy**
Chetan N Patil, Carolina Dalmaso, Rodrigo O Maranon, Jane F. Reckelhoff, U of Mississippi Medical Ctr, Jackson, MS
- P260 **Placental Ischemia-stimulated TH17 Cells Induce Preeclampsia-associated Cytolytic Natural Killer Cells During Pregnancy**
Denise C Cornelius, Corbin A Shields, Maggie L McCalmon, Tarek Ibrahim, Babbette LaMarca, Univ of Mississippi Medical Ctr, Jackson, MS
- P261 **Vasopressin System Components are Dysregulated in Human Preeclamptic Placenta**
Guorui Deng, Katherine J Perschbacher, Jeremy A Sandgren, Nanmeng Yu, Sabrina M Scroggins, Eric J Devor, Donna A Santillan, Katherine N Gibson-Corley, Curt D Sigmund, Anne E Kwitek, Mark K Santillan, Justin L Grobe, Univ of Iowa, Iowa City, IA
- P262 **Vasopressin Receptors Regulate Immune Responses in Preeclampsia**
Sabrina M. Scroggins, Donna A. Santillan, Daffney T. Gomendoza, Lindsay K. Gravatt, Kathryn J. Huber-Keener, Katherine J. Perschbacher, Jeremy A. Sandgren, Eric J. Devor, Justin L. Grobe, Mark K. Santillan, Univ of Iowa, Iowa City, IA
- P263 **Interleukin-17 Infusion Promotes Cerebral Edema and Increased Blood Brain Barrier Permeability in Pregnant Rats**
Junie P Warrington, Jeremy Duncan, Heather A Drummond, Joey P Granger, Michael J Ryan, Univ of Mississippi Medical Ctr, Jackson, MS
- P264 **Endothelial-specific Interference With PPAR γ Activity in Offspring Born From AVP-induced Preeclamptic Pregnancies Has Cardio-renal and Metabolic Consequences**
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
- P265 **Placental Ischemia Causes Renal Mitochondrial Impairment in Reduced Uterine Perfusion Pressure Rats**
Venkata Ramana Vaka, Kristen M McMaster, Mark W Cunningham Jr, Tarek Ibrahim, Lorena M Amaral, Nathan E Usry, Babbette LaMarca, Univ of Mississippi Medical Ctr, Jackson, MS
- P266 **Immunological Characterization of the Dahl SS Model of Superimposed Preeclampsia**
Erin B. Taylor, Eric M. George, Michael R. Garrett, Michael J. Ryan, Jennifer M. Sasser, Univ of MS Medical Ctr, Jackson, MS
- P267 **Placental Ischemia Causes Cardiac Structural and Functional Abnormalities in the Reduced Uterine Perfusion Pressure Rat Model**
Bhavisha Bakrania, Joey P. Granger, Univ of Mississippi Med. Ctr, Jackson, MS
- P268 **Overexpression of miR-210 Induces Preeclampsia-like Symptoms in Pregnant Mice by Attenuating the STAT6/IL-4 Pathway**
Kelsey R. Bounds, Valorie L. Chiasson, Rachel M. Engelbrecht, Lu J. Pan, Baylor Scott & White HL, Temple, TX; Piyali Chatterjee, Baylor Scott & White HL/Texas A&M HSC, Temple, TX
- P269 **Circulating Factors in Response to Placental Ischemia Cause Vascular Endothelial Mitochondrial Oxidative Stress**
Venkata Ramana Vaka, Kristen M McMaster, Mark W Cunningham Jr, Tarek Ibrahim, Lorena M Amaral, Denise Cornelius, Babbette LaMarca, Univ of Mississippi Medical Ctr, Jackson, MS
- P270 **First Trimester Elevation in Circulating Endothelin-1 and Arterial Stiffness are Predictive of Late Pregnancy Preeclampsia**
Alexandria M. Betz, Gary L. Pierce, Donna A. Santillan, Eric J. Devor, Sabrina M. Scroggins, Debra S. Brandt, Amy K. Stroud, Kellie M. Thomas, Seth W. Holwerda, Allison L. O'Deen, Lyndsey E. DuBose, Justin L. Grobe, Curt D. Sigmund, Mark K. Santillan, Univ of Iowa, Iowa City, IA
- P271 **Interleukin-4 Supplementation Improves Chronic Inflammation and Hypertension in Response to Placental Ischemia During Pregnancy**
Lorena M Amaral, Jesse Cottrell, Ashlyn Harmon, Denise C Cornelius, Mark W Cunningham Jr, Medical Ctr-UMMC, Jackson, MS; Gerd Wallukat, Florian Herse, Elios Clinic, Charite, Campus-Buch & Max-Delbrueck Ctr, Berlin, Germany; Tarek Ibrahim, Ralf Dechend, Babbette LaMarca, Medical Ctr-UMMC, Jackson, MS
- P272 **Preeclamptic Placental CD4 $^{+}$ T Cells Cause Preeclamptic Like Features in Normal Pregnant Nude Athymic Rats**
Tarek Ibrahim, Ashlyn C. Harmon, Denise C. Cornelius, Lorena Amaral, Mark Cunningham, Kedra Wallace, Babbette LaMarca, Univ of MS Medical Ctr, Jackson, MS
- P273 **Association Between 24-hr Urinary Cortisol and Severity of Obstructive Sleep Apnea in Patients With Resistant Hypertension**
Badhma Valaiyapathi, Mohammed Siddiqui, Eric Judd, Maria El Hachem, Suzanne Oparil, David A Calhoun, Tanja Dudenbostel, Univ of Alabama at Birmingham, Birmingham, AL
- P274 **Double Hit! A Unique Case of Resistant Hypertension**
Kristen DeCarlo, Nidhi Agrawal, NYU Sch of Med, New York, NY

- P275 Peripheral 18-oxocortisol Concentration Reflects Intra-tumoral Activities of Both CYP11B1 and CYP11B2 in Aldosterone-producing Adenoma**
Yuta Tezuka, Yuto Yamazaki, Tohoku Univ Hosp, Sendai, Japan; Masaaki Kitada, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Masahiro Nezu, Ryo Morimoto, Masataka Kudo, Yasuhiro Igarashi, Yasuhiro Nakamura, Sadayoshi Ito, Tohoku Univ Hosp, Sendai, Japan; Mari Dezawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Hironobu Sasano, Fumitoshi Satoh, Tohoku Univ Hosp, Sendai, Japan
- P276 (Pro)Renin Receptor-dependent Renal Generation of Aldosterone Contributes to ENaC Activation During Angiotensin II-induced Hypertension**
Fei Wang, Kexin Peng, Xiaohan Lu, Univ of Utah and Veterans Affairs Medical Ctr, Salt Lake Cty, UT; Kevin Yang, Adam Nau, Univ of Utah, Salt Lake Cty, UT; Tianxin Yang, Univ of Utah and Veterans Affairs Medical Ctr, Salt Lake Cty, UT
- P277 Mineralocorticoid Receptor Signaling Regulates TRPV4-mediated Vasodilation of Parenchymal Arterioles**
Janice M Diaz-Otero, Ting-Chieh Yen, William F Jackson, Anne M Dorrance, Michigan State Univ, East Lansing, MI
- P278 Identification of Differentially Expressed Aortic Genes in Brown Norway Introgressed Chromosome 2 Segments into Hypertensive Dahl Salt Sensitive Rats**
Olga Berillo, Sofiane Ouerd, Ku-Geng Huo, Asia Rehman, Lady Davis Inst, Montreal, QC, Canada; Chantal Richer, Daniel Sinnett, Sainte-Justine Univ Hosp, Montreal, QC, Canada; Anne E Kwitek, Dept of Internal Med, Univ of Iowa, Iowa, IA; Pierre Paradis, Ernesto L Schiffrin, Lady Davis Inst, Montreal, QC, Canada
- P279 Mapping of Chromosome 2 Differentially Expressed Aortic Genes Linked to Vascular Inflammation Using Congenic Rats Fed a High-salt Diet**
Olga Berillo, Sofiane Ouerd, Ku-Geng Huo, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Chantal Richer, Res Ctr, CHU Ste-Justine, Montreal, QC, Canada; Daniel Sinnett, Res Ctr, CHU Ste-Justine, Univ de Montréal, Montreal, QC, Canada; Anne E. Kwitek, Univ of Iowa, Iowa, IA; Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L. Schiffrin, Lady Davis Inst for Medical Res, Sir Mortimer B. Davis-Jewish General Hosp, McGill Univ, Montreal, QC, Canada
- P280 Butyric Acid Protects Against Aldosterone-salt-induced Hypertension and Renal Injury via Suppression of (Pro) Renin Receptor**
Kexin Peng, Sun Yat-sen Univ, Guangzhou, China; Long Zhao, Chuanming Xu, Univ of Utah, Salt Lake City, UT; Fei Wang, Tianxin Yang, Univ of Utah, salt lake city, UT
- P281 Urinary Metabolites Associated With Blood Pressure on a Low- or High-sodium Diet**
Hong Xue, Medical Coll of Wisconsin, Milwaukee, WI; Yuan Cheng, Haiying Song, Shenzhen Second People's Hosp, Shenzhen, China; Xiaoqing Pan, Yifei Wan, Tao Wang, Medical Coll of Wisconsin, Milwaukee, WI; Zhongmin Tian, Entai Hou, Xi'an Jiaotong Univ, Xi'an, China; Ian R Lanza, Mayo Clinic, Rochester, MN; Pengyuan Liu, Yong Liu, Purushottam W Laud, Kristie Usa, Medical Coll of Wisconsin, Milwaukee, WI; Yongcheng He, Shenzhen Second People's Hosp, Shenzhen, China; Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- P282 Low Dose LNAME Causes Salt Sensitive Hypertension via Activation of NCC**
Conghui Wang, Rehemani Latapati, Sayoko Ogura, Suangsung Koid, Fumiko Mori, The Univ of Tokyo, Dept of Internal Med, Tokyo, Japan; Tastuo Shimosawa, Professor and Chair Intl Univ of Health and Welfare, Sch of Med Mita Hosp, IUHW, Tokyo, Japan
- P283 Effects of High Salt Diet on Vascular Function and Renal Injury in a Novel Mouse Model of Neurogenic Hypertension**
Pablo Nakagawa, Larry N Agbor, Anand Nair, Javier Gomez, Chunyan Hu, Jing Wu, Curt D Sigmund, Univ of Iowa, Iowa City, IA
- P284 Neuron Specific (Pro)renin Receptor Knockout Reduces Sodium Appetite and Attenuates the Development of DOCA-salt Induced Hypertension**
Fatima Trebak, Univ of Nevada Reno, Reno, NV; Wencheng Li, Wake Forest Univ, Winston-Salem, NC; Yumei Feng, Univ of Nevada Reno, Reno, NV
- P285 Hydralazine Attenuates the Development of Hypertension in the Female Dahl Salt-sensitive Rat in a T Cell-independent Manner**
Amrita Vijay Pai, Crystal A West, Aline Souza, Parnika S Kadam, Emma J. Pollner, David A. West Jr., Hong Ji, Xie Wu, Kathryn Sandberg, Georgetown Univ, Washington, DC
- P286 Circulating Lipoxin A4 Causes Resolution of Inflammation via Estrogen Receptor Activation, While Mitochondria N-Formyl Peptides Induce Inflammation via Formyl Peptide Receptor in Hypertension**
Camilla Ferreira Wenceslau, Cameron G. McCarthy, Theodora Szasz, R. Clinton Webb, Augusta Univ, Augusta, GA
- P287 Hypertension and Danger-associated Molecular Patterns**
Tyler D Bammert, Monika R Fleshner, Caitlin A Dow, Grace M Lincenberg, Jared J Greiner, Univ of Colorado, Boulder, CO; Brian L Stauffer, Univ of Colorado Anschutz Medical Ctr, Denver, CO; Christopher A DeSouza, Univ of Colorado, Boulder, CO

- P288 **Systemic Administration of an Angiotensin Type-2 Receptor Agonist Decreases Renal Regulatory T Cells**Ellen E Gillis, Jennifer C. Sullivan, Augusta Univ, Augusta, GA
- P289 **Cardio-protective Peptide Ac-SDKP is Highly Concentrated in Lymph Nodes**Cesar A Romero, Sonal Vaid, Nitin Kumar, Tang-Dong Liao, Oscar A Carretero, Henry Ford Health System, Detroit, MI
- P290 **Unilateral Cervical Vagotomy Protects Against Renal Injury and Hypertension in a Mouse Model of Lupus Hypertension**Grace S Pham, Sarika Chaudhari, Daniel L Fancher, Tanya B Michaels, Luke D'Cunha, Keisa W Mathis, UNTHSC, Fort Worth, TX
- P291 **Sodium-independent Dietary Effects on Renal Immune Cell Infiltration in Salt-sensitive Hypertension**Justine M Abais-Battad, Hayley Lund, Mingyu Liang, Pengyuan Liu, David L Mattson, Medical Coll of Wisconsin, Milwaukee, WI
- P292 **Reversal of Cardiac Remodeling After Surgical Intervention Leads to Distinct Cardiac Function Outcomes**Leonardo Jensen, Amanda Almeida Silva, Nataly Cunha Oliveira, Leandro Eziquiel de Souza, Maria Claudia Costa Irigoyen, Heart Inst, São Paulo, Brazil
- P293 **The Correlations Between NT-proBNP and Cardiac Reserve by Phonocardiogram Exercise Test**Yu Chaoping, Xu Fengcheng, Liu Tianhu, Pidu District People's Hosp, Chengdu, China
- P294 **Leptin Deficiency Reduces Cardiac Reserve Independently of Increased Body Weight**Fabio N Gava, John E Hall, Jussara M do Carmo, UMMC, Jackson, MS
- P295 **High Dietary Fat Intake Attenuates Pressure Overload-induced Cardiac Remodelling in a Spontaneous Hypertensive Rat Model**Eugene McNamara, Univ Coll Dublin, Dublin, Ireland; Chris Watson, Queen's Univ of Belfast, Belfast, United Kingdom; Liam Shiels, Adam Russell-Hallinan, Univ Coll Dublin, Dublin, Ireland; Mark Ledwidge, St Vincents Univ Hosp, Dublin, Ireland; John Baugh, Univ Coll Dublin, Dublin, Ireland
- P296 **Deletion of Endothelial Sirt3 Causes Diastolic Dysfunction**Xiaochen He, Heng Zeng, Jian Xiong X Chen, Univ of Mississippi Medical Ctr, Jackson, MS
- P297 **The Deleterious Role of Prostaglandin E2 EP3 Receptor in Ang II-induced Hypertension**Timothy Bryson, Henry Ford Health System/Wayne State Univ Sch of Med, Detroit, MI; Jiang Xu, Henry Ford Health System, Detroit, MI; Pamela Harding, Henry Ford Health System/Wayne State Univ Sch of Med, Detroit, MI
- P298 **Excretion of Urinary Marinobufagenin And Angiogenic Factors in Pregnancies With Increased Risk for Preeclampsia: A Pilot Study**Nathan Drever, Baylor Scott & White HL/TAMUHSC, Temple, TX; Hong Wang, John Wages, Bo Yu, Panorama Res Inc., Sunnyvale, CA; Syeda H Afroze, TAMUHSC, Temple, TX; Ram Kalagiri, Baylor Scott & White HL/TAMUHSC, Temple, TX; James W Larrick, Panorama Res Inc., Sunnyvale, CA; Thomas J Kuehl, Mohammad N Uddin, Baylor Scott & White HL/TAMUHSC, Temple, TX
- P299 **Longitudinal Study of Angiotensins in Normal and Preeclampsic Pregnancy**K. Bridget Brosnihan, Wake Forest Sch of Med, Winston Salem, NC; David C Merrill, Aurora Medical Group, West Allis, WI; Liliya C Yamaleyeva, Wake Forest Sch of Med, Winston Salem, NC; Kai Chen, Aurora Medical Group, West Allis, WI; JaNee Joyner, Courtney Gruver, Kristen Lanier, Carol Moorefield, Wake Forest Sch of Med, Winston Salem, NC
- P300 **Fetal Status Evaluation Using Photoacoustics and 3D Power Doppler Ultrasound**Liliya M Yamaleyeva, K. Bridget Brosnihan, Tiffaney Bledsoe, Wake Forest Sch Med, Winston Salem, NC
- P301 **Preeclampsia and Gestational Hypertension: Does sEng Levels Make the Important Difference**Athar H Siddiqui, Rahul Negi, Sch of Medical Sciences, Univ of Hyderabad, Hyderabad, India; Vemanamanda Haritha, Nuzhat Aziz, Fernandez Hosp Educational & Res Fndn, Hyderabad, India
- P302 **Nicotinamide Ameliorates IgA Nephropathy and Pregnancy Outcome in Pregnant Grouped-ddy Mice**Tomofumi Fushima, Akiyo Sekimoto, Yuji Oe, Emiko Sato, Hiroshi Sato, Sadayoshi Ito, Nobuyuki Takahashi, Tohoku Univ, Sendai, Japan
- P303 **Endothelin Modulates Local Complement Activation in Placental Ischemia-induced Hypertension**Jean F Regal, Cameron R Wing, Luke McCutcheon, Jeffrey S Gilbert, Univ of Minnesota Medical Sch, Duluth campus, Duluth, MN; Sherry D Fleming, Div of Biology, Kansas State Univ, Manhattan, KS
- P304 **Motivia®, a Cardiovascular Disease Prevention Program, Decreases Hospitalization Length in Patients With High Risk for Developing Cardiovascular Event. Retrospective Analysis From 2010-2015**Hernan A Perez, Blossom DMO, Cordoba, Argentina; Natalia Jorgensen, Univ ISALUD, Buenos Aires, Argentina; Santiago Torales, Blossom, Buenos Aires, Argentina; Andrés Chianalino, Dept of Hosp Cost Analysis OSLyF Cordoba, Cordoba, Argentina; Luis J. Armando, Blossom DMO, Cordoba, Argentina

- P305 Intensive Follow-up of High Cardiometabolic Risk Patients. Eight Years Experience**
Hernán A. Perez, Blossom DMO, Córdoba, Argentina;
Nestor H Garcia, CONICET, La Calera, Argentina;
Luis J. Armando, Blossom DMO, Córdoba, Argentina
- P306 Maternal High Fat Diet Acts on the Brain to Induce Baroreflex Dysfunction and Sensitization of Angiotensin II-induced Hypertension in Adult Offspring**
Yu-Ping Zhang, Hebei North Univ, Zhangjiakou City, China; Yan-Li Huo, Zhi-Qin Fang, Xue-Fang Wang, Jian-Dong Li, Hai-Ping Wang, Hebei North Univ, Zhangjiakou, China; Wei Peng, Hebei North University, Zhangjiakou, China; Alan Kim Johnson, **Baojian Xue**, Univ of Iowa, Iowa City, IA
- P307 pNaKtide Attenuates Dyslipidemia and Atherosclerosis by Blocking Na/K-ATPase/Reactive Oxygen Species Amplification in ApoE ^{-/-} Mice**
Hibba Chaudhry, Alexandra Nichols, Athar Nawab, Dana Sharma, Komal Sodhi, Marshall Univ, Huntington, WV
- P308 Rgs2 Promotes Uterine Blood Flow During Pregnancy**
Jennifer N Koch, Elizabeth A. Owens, Shelby Dahlen, Jie Li, **Patrick Osei Owusu**, DREXEL UNIVERSITY COLLEGE OF MED, Philadelphia, PA
- P309 Alterations In Cardiac Structure And Function Caused By Preeclampsia**
Kristin Kraeher, Florian Herse, Dominik N. Mueller, Max-Delbrück-Ctr for Molecular Med, Berlin, Germany; Ralf Dechend, Charité, Berlin, Germany; Nadine Haase, Max-Delbrück-Ctr for Molecular Med, Berlin, Germany
- P310 Atuplex Formulated With Small Interfering RNA For Soluble Fms-like Tyrosine Kinase-1 (sFLT1) Selectively Silences Maternal And Placental sFLT1 In A Preeclamptic Rat Model**
Nadine Haase, Kristin Kräker, Max-Delbrueck Ctr for Molecular Med, Berlin, Germany; Ute Schaeper, Jens Endruschat, Silence Therapeutics, Berlin, Germany; Dominik N. Müller, Max-Delbrueck Ctr for Molecular Med, Berlin, Germany; Ralf Dechend, Charité, Berlin, Germany
- P311 Intracellular Renin Angiotensin Aldosterone System in Mesangial Cells Under the Stimulus of Aldosterone**
Danielle Stoll, Univ Federal De Sao Paulo, Sao Paulo, Brazil; Rodrigo E Yokota, Danielle S Aragão, Univ Federal De Sao Paulo, São Paulo, Brazil; **Dulce E Casarini**, Univ Federal De Sao Paulo, Sao Paulo, Brazil
- P312 The Clinical Postoperative Outcome Between Two Group of the Patients With Aldosteronoma Differentiated by the Higher and the Lower Cosyntropin-stimulated Lateralization Indices**
Fumitoshi Satoh, Clinical Hypertension, Endocrinology and Metabolism, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Ryo Morimoto, Tohoku University Hosp, Sendai, Japan; Yuta Tezuka, Clinical Hypertension, Endocrinology and Metabolism, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Masataka Kudo, Sadayoshi Ito, Tohoku University Hosp, Sendai, Japan
- P313 Age and Response of Plasma Aldosterone to Saline Infusion in Primary Hypertension**
Cristiana Catena, Gianluca Colussi, Marileda Novello, Nicole Bertin, Gabriele Brosolo, Andrea Palomba, Francesca Spagnol, Leonardo A Sechi, Internal Med, Udine, Italy
- P314 Effect of Sex on Blood Pressure and Endothelial Dysfunction in the Novel BPH2 Mouse Model of Hypertension**
Sean P Didion, Univ of Mississippi Med Ctr, Jackson, MS
- P315 Gender Differences of Aortic Wave Reflection and Influence of Menopause on Central Blood Pressure in Patients With Arterial Hypertension**
Valeria Costa-Hong, Henrique C Muela, Thiago A Macedo, Allan R Sales, **Luiz A Bortolotto**, Heart Inst (InCor) of HCFMUSP, São Paulo, Brazil
- P316 Gonad Dependent Changes in Kallikrein Kinin System Behavior and Renal Electrolyte Excretion After Rectifying Outer Medulla K⁺ Channel Blockade in Spontaneously Hypertensive Rats**
Dario Guevara, Elisabet M Oddo, Alejandro F Celia, Martin Solernó, Luis A Di Ciano, Fernando R Ibarra, Elvira E Arrizurieta, Pablo J Azurmendi, IIM A Lanari, UBA, Buenos Aires, Argentina
- P317 Sex Differences in the Hemodynamic and Sympathetic Responses to Centrally Administered Tumor Necrosis Factor- α in Rats**
Shun-Guang Wei, Yang Yu, Robert B. Felder, Univ of Iowa Carver Coll of Med, Iowa City, IA
- P318 Signaling Pathways Triggered by the Mas Receptor**
Valeria Burghi, Univ of Buenos Aires, Sch of Pharmacy and Biochemistry, Dept of Biological Chemistry, IQUIFIB, Buenos Aires, Argentina; Emiliana B Echeverria, Univ of Buenos Aires, Sch of Pharmacy and Biochemistry, ININFA, Buenos Aires, Argentina; Diego T Quiroga, Marina C Munoz, Univ of Buenos Aires, Sch of Pharmacy and Biochemistry, Dept of Biological Chemistry, IQUIFIB, Buenos Aires, Argentina; Natalia C Fernandez, Univ of Buenos Aires, Sch of Pharmacy and Biochemistry, ININFA, Buenos Aires, Argentina; **Fernando P Dominici**, Univ of Buenos Aires, Sch of Pharmacy and Biochemistry, Dept of Biological Chemistry, IQUIFIB, Buenos Aires, Argentina

- P319 **5-HT₇ Receptors Mediate 5-HT-induced Hypotension**
Stephanie W Watts, Bridget M Seitz, Gregory D Fink, Michigan State Univ, East Lansing, MI
- P320 **Cooperative Signaling and Membrane Recruitment of the Dopamine-1 (D₁R) and Angiotensin Type 2 (AT₂R) Receptors in Human Renal Proximal Tubule Cells (RPTC)**
John J Gildea, Micah J Mallory, Robin A Felder, The Univ of Virginia, Charlottesville, VA
- P321 **Clozapine-induced Hypertension: Role of the Dopamine Type 4 Receptor (D₄R) in Human Renal Proximal Tubule Cells (RPTC)**
 Peng Xu, The Univ of Virginia, Charlottesville, VA; Dianna L Kelly, Univ of Maryland, Baltimore, MD; Christopher Kitchen, The Univ of Maryland, Baltimore, MD; John J Gildea, Katie A Schiermeyer, The Univ of Virginia, Charlottesville, VA; Pedro A Jose, George Washington Univ, Washington DC, DC; Sarah M Norman, Robert P McMahon, The Univ of Maryland, Baltimore, MD; Z Wang, George Washington Univ, Washington DC, DC; **Robin Felder**, The Univ of Maryland, Charlottesville, VA
- P322 **Interaction of Shroom3 With Fyn Impacts Phosphorylation of Nephritin Causing Proteinuria With Foot Process Effacement**
Madhav C Menon, Nimrod Philippe, Chengguo Wei, Ruijie Liu, Weijia Zhang, Zhengzi Li, John C He, Barbara Murphy, Mount Sinai Sch of Med, New York, NY
- P325 **6 β -hydroxytestosterone, a Cytochrome P450 1B1 Metabolite of Testosterone, Contributes to Angiotensin II-Induced Abdominal Aortic Aneurysms in Hyperlipidemic Male Mice**
Kamalika Mukherjee, Ajeeth K Pingili, Ahmad N Dhodi, Kafait U Malik, Univ. of Tennessee Health Science Ctr, Memphis, TN
- P326 **Effects of D₁R/AT₂R Coupling on Aminopeptidase N (APN) in Human Renal Proximal Tubule Cells (RPTC)**
Micah J Mallory, John J Gildea, Peng Xu, Robin A Felder, UNIVERSITY OF VIRGINIA Dept of Pathology, Charlottesville, VA
- P327 **Inter-individual Difference in Sensitivity of Aversive Salt Taste**
Minoru Isomura, Shamane Univ, Matsue, Japan; Toru Nabika, Shamane Univ, Izumo, Japan
- P328 **Angiotensin II Inhibits the High Salt-induced Production of Sphingosine-1-phosphate in the Renal Medulla**
 Weili Wang, Junping Hu, Pin-Lan Li, Justin L Poklis, **Ningjun Li**, Virginia Commonwealth Univ, Richmond, VA
- P329 **Sympathetically Alpha-1 Adrenoceptor Mediated Regulation of the NCC in Rat Models of Salt Sensitive and Neurogenic Hypertension**
Richard D Wainford, Alissa A Frame, Boston Univ Sch Med, Boston, MA
- P330 **Customization of Low-sodium Diet and Its Efficacy**
Srividya Kidambi, Andrea Moosreiner, Merrill Rubens, Brittaney Obi, Michael Widlansky, Sudhi Tyagi, Venkata Puppala, Andreas Beyer, Allen Cowley, David Mattson, Theodore Kotchen, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- P331 **Angiotensin-salt Hypertension Requires Ouabain-sensitive Na⁺ Pumps**
 Ling Chen, Univ Maryland Med Sci, Baltimore, MD; Jerry B. Lingrel, Univ of Cincinnati Coll of Med, Cincinnati, OH; John M. Hamlyn, **Mordecai P Blaustein**, Univ Maryland Med Sci, Baltimore, MD
- P332 **Dietary Salt Intake and Blood Pressure Control in Hypertensive Individuals Under Antihypertensive Treatment During 7 Years**
Kazuto Ohno, Hiroyuki Takase, Masashi Machii, Daishi Nonaka, Enshu Honspital, Hamamatsu, Japan; Tomonori Sugiura, Nobuyuki Ohte, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan; Yasuaki Dohi, Nagoya Gakuin Univ, Seto, Japan
- P333 **Repeated Measurement of Casual Urine Na/K Ratio May Provide Useful Information to Screen Early Stage Chronic Kidney Disease Patients With Higher Sodium and Lower Potassium Intake**
 Yuka Okuyama, **Haruhito A Uchida**, Okayama Univ Grad Sch Med, Okayama, Japan; Toshiyuki Iwahori, Shiga Univ of Medical Science, Otsu, Japan; Ryoko Umehayashi, Ayako Kato, Okayama Univ Grad Sch Med, Okayama, Japan; Katsuyuki Miura, Hirotsugu Ueshima, Shiga Univ of Medical Science, Otsu, Japan; Jun Wada, Okayama Univ Grad Sch Med, Okayama, Japan
- P334 **Persistent Adrenomedullin Derivative Inhibits Development of Hypertension**
Sayaka Nagata, Motoo Yamasaki, Kazuo Kitamura, Univ of Miyazaki, Miyazaki, Japan
- P335 **Greater Reduction in Sympathetic Tone following ET_B Receptor Blockade in Rats Lacking the Clock Gene Bmal1 during High Salt Diet**
Jermaine G Johnston, Bryan K Becker, Chunhua Jin, David M Pollock, Univ of Alabama Birmingham, Birmingham, AL
- P336 **Excreted Living Renal Proximal Tubule Cells (RPTC) Demonstrate Increased Sodium and Bicarbonate Transport in Inverse Salt Sensitive Individuals Using a Patch Clamp Instrument**
Peng Xu, Katherine A Schiermeyer, John J Gildea, Hanh T Tran, UNIVERSITY OF VIRGINIA Dept of Pathology, Charlottesville, VA; Robert M Carey, UNIVERSITY OF VIRGINIA Dept of Med, Charlottesville, VA; Robin A Felder, UNIVERSITY OF VIRGINIA Dept of Pathology, Charlottesville, VA

- P337 Sodium-independent Elevations of Blood Pressure are Accompanied by Immune Cell Infiltration in the Kidney and Renal Damage in Dahl SS Rats**
Brittany M Wade, **David L Mattson**, Medical Coll of Wisconsin, Milwaukee, WI
- P338 Long Term End Organ Inflammation and Dysfunction in Mice After Angiotensin II Induced Hypertension**
Wei Chen, Liang Xiao, David G Harrison, Vanderbilt Univ, Nashville, TN
- P339 Genetically Induced Renal Lymphangiogenesis Prevents the Development of L-NAME Hypertension in Mice**
Catalina A Lopez Gelston, Dakshnapriya Balasubramanian, Gabriella R Abouelkheir, Alexandra H Lopez, Kayla R Hudson, Eric R Johnson, Victoria C Garza, Reem A Daboul, Joseph M Rutkowski, Brett M Mitchell, Texas A&M Univ Health Science Ctr, College Station, TX
- P340 Immunomodulatory Effect of Rapamycin on the Expression of Anti-inflammatory Cytokines in Npr1 Gene-deleted Mice**
Venkateswara R Gogulamudi, Umadevi Subramanian, Meaghan Bloodworth, **Kailash N Pandey**, Tulane SOM Physiology, New Orleans, LA
- P341 Renal Denervation Prevents Cholinergic Mediated Hypertension and Renal Macrophage Infiltration**
Nandita Raikwar, Jason Ratcliff, Chantal Allamargot, Mark W Chapleau, Francois M Abboud, **Sailesh C Harwani**, Univ of Iowa Hosp, Iowa City, IA
- P342 Sirt 1 on Endothelial Dysfunction in Small Arteries From Obese Patients**
Agostino Virdis, Stefano Masi, Monica Nannipieri, Daniela Guarino, Univ of Pisa, Pisa, Italy; Marco Anselmino, Dept of General Surgery, Azienda Ospedaliero-Universitaria Pisana, Pisa, Italy; Rocchina Colucci, Dept of Pharmacology, Univ of Padova, Padova, Italy; Emiliano Duranti, Corrado Blandizzi, Stefano Taddei, Univ of Pisa, Pisa, Italy
- P343 A Dual Endothelin A/B Receptor Blocker in a Rat Model of Sleep Apnea and Chronic Kidney Disease**
Laura V Gonzalez Bosc, Wieslawa Giermakowska, Carolyn E Pace, Adelaeda Barrera, Perenkita Mendiola, David T Jones, Minerva Murphy, Nancy L Kanagy, Univ of New Mexico, Albuquerque, NM
- P344 Nuclear Factor E2-related Factor 2 (nrf2) Causes Early Microvascular Endothelial Dysfunction and Increased Adma by Activation of the Cox2/tp Receptor Pathway in Mice Infused With Angiotensin II for Three Days**
Dan Wang, Georgetown Univ Medical Ctr, Washington, DC; Xueqin Hao, Henan Univ of Science and Technology, Luoyang, China; Cheng Wang, The Third Hosp of Sun Yat-sen Univ, Guangzhou, China; William J Welch, Georgetown Univ Medical Ctr, Washington, DC; James Tomlinson, James James, MRC Clinical Sciences Ctr, Imperial Coll London, London, United Kingdom; Christopher S Wilcox, Georgetown Univ Medical Ctr, Washington, DC
- P345 Overexpression of Mitochondrial Deacetylase Sirt3 Protects Endothelial Function and Attenuates Hypertension While Sirt3 Depletion Increases Oxidative Stress and Endothelial Dysfunction Due to SOD2 Hyperacetylation**
Anna E Dikalova, Hana A Itani, Arvind K Pandey, David G Harrison, **Sergey I Dikalov**, Vanderbilt Univ Medical Ctr, Nashville, TN
- P346 Diurnal Variation of Serum Uric Acid Levels and Corresponding Variations of Oxidative Stress Markers in Patients With Hypertension and Stable Coronary Artery Disease**
Megumi Shimizu, Dept of Cardiovascular Med, Juntendo Univ Sch of Med, Tokyo, Japan; Takatoshi Kasai, Shoichiro Yatsu, Azusa Murata, Dept of Cardiology, Juntendo Univ, Graduate Sch of Med, Tokyo, Japan; Hiroki Matsumoto, Dept of Cardiovascular Med, Juntendo Univ Sch of Med, Cardiovascular Respiratory Sleep Med, Juntendo Univ Graduate Sch of Med, Tokyo, Japan; Jun Shitara, Dept of Cardiovascular Med, Juntendo Univ Sch of Med, Tokyo, Japan; Takao Kato, Tobu Chiiki Hosp, Tokyo, Japan; Shoko Suda, Dept of Cardiovascular Med, Juntendo Univ Sch of Med, Cardiovascular Respiratory Sleep Med, Juntendo Univ Graduate Sch of Med, Tokyo, Japan; Masaru Hiki, Dept of Cardiovascular Med, Juntendo Univ Sch of Med, Tokyo, Japan; Ryo Naito, Juntendo Univ Urayasu Hosp, Tokyo, Japan; Kazunori Shimada, Hiroyuki Daida, Dept of Cardiovascular Med, Juntendo Univ Sch of Med, Tokyo, Japan
- P347 $\gamma\delta$ T Cells Drive CD4⁺ And CD8⁺ T Cell Activation In Hypertension**
Antoine Caillon, Pierre Paradis, Ernesto L. Schiffrin, MCGILL UNIVERSITY, Montreal, QC, Canada
- P348 Immunosuppression with Cyclophosphamide Attenuates Renal Injury but Not Hypertension in an Experimental Model of Autoimmune Disease**
Victoria L Wolf, Erin B Taylor, Michael J Ryan, Univ of Mississippi Medical Ctr, Jackson, MS
- P349 Plasma Corin Levels Reflect Dynamic Changes in Cardiac Expression Induced by Experimental Acute Myocardial Infarction**
Dong Wang, Inna P. Gladysheva, Ryan D. Sullivan, Tai-hwang Michael Fan, Radhika M. Mehta, Ranjana Tripathi, Yao Sun, Guy L. Reed, Univ of Tennessee, Memphis, TN

- P350 Abnormal VCG and Hi-Res Parameters of P and QRS Complex in Hypertensive Patients Without/with Paroxysmal Atrial Fibrillation**
Slavomira Filipova F, Faculty of Med, Slovak Med Univ and Natl Inst of Cardiovascular Diseases, Bratislava, Slovakia; Anna Vachulova F, Dana Skultetyova, Peter Hlivak M, Natl Inst of Cardiovascular Diseases, Bratislava, Slovakia; Ludovit Gaspar M, Faculty of Med, Comenius Univ, Bratislava, Slovakia
- P351 Cornell Product in Electrocardiogram is More Strongly Related to LV Regional Wall Motion Than Sokolow-Lyon Voltage**
Joji Ishikawa, Tokyo Metropolitan Geriatric HP, Tokyo, Japan; Yuko Yamanaka, Jichi Medical Univ, Tochigi, Japan; Shintaro Watanabe, Sano Kosei General Hosp, Tochigi, Japan; Kazumasa Harada, Tokyo Metropolitan Geriatric HP, Tokyo, Japan
- P352 Prostaglandin E2 Reduces Mitochondrial Function in Adult Mouse Cardiomyocytes**
Pamela Harding, Henry Ford Hosp, Detroit, MI; Timothy D Bryson, Henry Ford Hosp/Wayne State Univ, Detroit, MI; Indrani Datta, Yun Wang, Albert Levin, Henry Ford Hosp, Detroit, MI
- P353 Attenuation of Cardiac Fibrosis, Hypertrophy and Myopathy by AT2R Agonist NP-6A4**
Lakshmi Pulakat, Univ of Missouri-Columbia, Columbia, MO; Madhavi Gavini, Novopyxis. Inc, Cambridge, MA; Abuzar Mahmood, Anthony Belechia, Ryan Toedebusch, Paige Beauparlant, Vincent DeMarco, Senthil Kumar, Sivakumar Ardhanari, Univ of Missouri-Columbia, Columbia, MO
- P354 Left Ventricular Mass and Exaggerated Hypertensive Blood Pressure Response to Bruce Exercise Stress Test in Diabetics and Nondiabetics**
 Michael Balderas, Joaquin Cigarroa, UT Health, San Antonio, TX; Daniel Lozano, South Texas Veterans Healthcare System, Audie L Murphy Hosp, San Antonio, TX; Joan Hecht, **Rene A Oliveros**, UT Health, San Antonio, TX
- P355 Prevalence of Diastolic Dysfunction With Preserved Left Ventricular Systolic Function in Hypertensive and Type II Diabetic Patients in a Large Community Practice in Greenville, South Carolina**
Naveen Raj Saxena, Juhi Saxena, Anju Saxena, Vinita Srivastava, Peace Medical Ctr, Simpsonville, SC
- P356 Mmp-2/timp-2 Imbalance and Increased Collagen Production are Crucial to the Transition From Compensated Cardiac Hypertrophy to Heart Failure in Rats Subjected to Abdominal Aorta Constriction**
Cibele M Prado, Univ of Sao Paulo, Ribeirao Preto, Brazil; Thayane R Pizzo, Herminio Ometto Univ Ctr, Araras, Brazil; Aline Fernandes, Herminio Ometto Univ Ctr, ARARAS, Brazil; Vanessa A Amorin, Univ of Sao Paulo, Ribeirao Preto, Brazil; Elen Rizzi, Univ of Ribeirao Preto (UNAERP), Ribeirao Preto, Brazil; Flavio V Meirelles, Univ of Sao Paulo, Pirassununga, Brazil; Helio C Salgado, Univ of Sao Paulo, Ribeirao Preto, Brazil
- P358 Central BP Variability is Increased in Hypertensive-related Target Organ Damage**
Alejandro De La Sierra, Julia Pareja, Sergi Yun, Eva Acosta, Francesco Aiello, Hosp Mutua Terrassa, Terrassa, Spain; Anna Oliveras, Susana Vazquez, Hosp Del Mar, Barcelona, Spain; Pedro Armario, Pere Blanch, Hosp Moises Broggi, Sant Joan Despi, Spain; Cristina Sierra, Hosp Clinic, Barcelona, Spain; Francesca Calero, Patricia Fernandez LLama, Fundacio Puigvert, Barcelona, Spain
- P359 Achieving Normal Blood Pressure with Cloud-based Monitoring and Management**
Jorge Sanchez, Oasis Pavilion Rehabilitation, Casa Grande, AZ; Tanzid Shams, Mountain States Medical Group, Johnson City, TN; Clifford Fonner, Virginia Cardiac Services Quality Initiative, Virginia Beach, VA; Nirav Shah, Swedish Neurology Inst, seattle, WA
- P360 Diagnostic Accuracy Provided by Different Approaches to Office Blood Pressure Measurement: How Many Readings Are Enough?**
Ian M Kronish, Donald Edmondson, Daichi Shimbo, Columbia Univ, New York, NY; Jonathan Shaffer, Univ of Colorado at Denver, Denver, CO; Lawrence Krakoff, Icahn Sch of Med at Mount Sinai, New York, NY; Joseph Schwartz, Columbia Univ, New York, NY
- P361 Prevalence & Predictors of Orthostatic Hypotension at a Tertiary Care Hypertension Clinic With New Diagnostic Thresholds**
Swapnil Hiremath, Mohammad Ali Faraz, Brendan McCormick, Marcel Ruzicka, Ottawa Hosp, Ottawa, ON, Canada
- P362 What is the Cost of Measuring a Blood Pressure?**
Steven A Yarows, IHA, Chelsea, MI
- P363 Dual Monitor Protocol Comparing the Accuracy of the Oscar 2 & Spacelabs 90207 24-hr Ambulatory Blood Pressure Monitors**
V P Lombardi, Univ of Oregon, Depts of Biology and Human Physiology, Eugene, OR; P C Reichhold, N R Dietz, D L Pate, Univ of Oregon, Depts of Biology & Human Physiology & Inst of Neuroscience, Eugene, OR
- P364 Altered Circadian Rhythm in Blood Pressure in Obstructive Sleep Apnea**
Saurabh S Thosar, Matthew P Butler, Oregon Health and Sci Univ, Portland, OR; Kun Hu, Frank AJL Scheer, Brigham and Women's Hosp, Boston, MA; Carolina Smales, Carilion Clinic, Roanoke, VA; Pamela N DeYoung, UC San Diego, San Diego, CA; Mohammad Hussain, Brigham and Women's Hosp, Boston, MA; Miki Morimoto, Steven A Shea, Oregon Health and Sci Univ, Portland, OR

- P365 Blood Pressure Evaluation From Ppg Signal Analysis and Artificial Neural Network**
 Francesco Lamonaca, Dept of Engineering, University of Sannio, Benevento, Italy; **Vitaliano Spagnuolo**, Unit of Hypertension, Azienda Ospedaliera of Cosenza, Cosenza, Italy; Serena De Prisco, Unit of Hypertension (trainee), Azienda Ospedaliera of Cosenza, Cosenza, Italy; Domenico Luca Carni, Domenico Grimaldi, Dept of Informatics, Modelling, Electronic and System, Univ of Calabria, Rende, (Cosenza), Italy
- P366 Blood Pressure Checks for Diagnosing Hypertension (BP-CHECK)**
Beverly B Green, Melissa L Anderson, Andrea J Cook, Jerry Campbell, Yoshio N Hall, Clarissa Hsu, Dwayne Joseph, Pedja Klasnja, Kaiser Permanente Washington, Seattle, WA; Karen L Margolis, Health Partners, Minneapolis, MN; Jennifer B McClure, Kaiser Permanente Washington, Seattle, WA; Sean A Munson, Matthew J Thompson, Univ of Washington, Seattle, WA
- P367 Masked Hypertension is Not Associated With Orthostatic Hypertension**
 Joaquin Cigarroa, Michael Balderas, UT Health, San Antonio, TX; Christopher Baez, South Texas Veterans Healthcare System, Audie L Murphy VA Hosp, San Antonio, TX; Benjamin Garza, South Texas Veterans Healthcare System, Audie L Murphy VA Hosp, San Antonio, TX; Joan Hecht, **Rene A Oliveros**, Univ of Texas Health Science, San Antonio, TX; Robert Chilton, UT Health, San Antonio, TX
- P368 Effects of Empagliflozin on Day-to-day Variability of Home Blood Pressure and Heart Rate in Patients with Type 2 Diabetes**
Tatsuo Misawa, Yumi Kawagoe, Fujiko Oda, Misao Ogata, Yamagata Prefectural Kahoku Hosp, Yamagata, Japan
- P369 Ambulatory Blood Pressure Monitoring Profile as a Useful Tool - Assessment of an Adult Population in the Real World**
 Yasmin Suemy Prado, Livia Freitas Rodrigues, Patricia de Lima Lopes, Ligia de Carvalho Rocha, Maria Andries Lucci, Mariella Pacheco dos Santos, Paulo Emilio Almeida, Estácio de Sá Univ, Rio de Janeiro, Brazil; **Lílian Soares da Costa**, Estácio de Sá Univ e Faculdade de Medicina Souza Marques, Rio de Janeiro, Brazil
- P370 Nocturnal Blood Pressure Fall on Ambulatory Monitoring in a Cohort Data of Elderly Subjects**
 Patricia de Lima Lopes, Livia Freitas Rodrigues, Yasmin Suemy Prado, Ligia de Carvalho Rocha, Paulo Emilio Almeida, Maria Andries Lucci, Mariella Pacheco dos Santos, Estácio de Sá Univ, Rio de Janeiro, Brazil; **Lílian Soares da Costa**, Estácio de Sá Univ e Faculdade de Medicina Souza Marques, Rio de Janeiro, Brazil
- P371 Incremental Changes in Systolic Blood Pressure Post-mild Exercise, in Normotensive Subjects, is Associated With Significant Structural and Functional Cardiovascular Abnormalities**
Susan Tucker, Arjun Byju, Mahfouz El Shahawy, Cardiovascular Ctr of Sarasota, Sarasota, FL
- P372 Validation of a m-Health Platform for Blood Pressure Control and Reduction**
Giovanni Peretto, Univ Vita-Salute San Raffaele, Milano, Italy; Gaia Del Mauro, Tommaso Bordignon, Eros Colombo, Martina Fabi, Amicommed Inc, San Francisco, CA; Stefano Negri, Vittoria Vergani, Univ Vita-Salute San Raffaele, Milano, Italy; Domenico Cianflone, Amicommed Inc, San Francisco, CA
- P373 A Cohort Study in Elderly Population - Differences Between Older and Very Older Subjects**
 Livia Freitas Rodrigues, Patricia de Lima Lopes, Yasmin Suemy Prado, Mariella Pacheco dos Santos, Maria Andries Lucci, Ligia de Carvalho Rocha, Paulo Emilio Almeida, Estácio de Sá Univ, Rio de Janeiro, Brazil; **Lílian Soares da Costa**, Estácio de Sá Univ e Faculdade de Medicina Souza Marques, Rio de Janeiro, Brazil
- P374 Smartphone Application for Blood Pressure Monitoring: Whittings vs MobileRapid (Pic S)**
lucia prati, Asl di Frosinone, paliano, Italy; Valerio Pecchioli, Asl di Frosinone, frosinone, Italy
- P375 Community Based Wireless Blood Pressure Monitoring Improves Patient Centeredness**
Ryan James Moran, Anna Narezkina, Kevin Patrick, UCSD, San Diego, CA
- P376 Impact of Selected Differences Between Automated versus Conventional Office Blood Pressure and Adherence on the Prevalence of SPRINT Eligibility in Korean Population**
Jinho Shin, Hanyang Univ Medical Ctr, Seoul, Korea, Republic of; Sung-Il Choi, Hanmmaeum General Hosp, Chang-Won, Korea, Republic of; Sungha Park, Yonsei University Medical Ctr, Seoul, Korea, Republic of; Ki Chul Sung, Sungkyunkwan Univ Coll of Med, Seoul, Korea, Republic of; Kwang-il Kim, Seoul Natl University Bundang Hosp, Bundang, Korea, Republic of; Sang Hyun Ihm, Catholic Univ Coll of Med, Seoul, Korea, Republic of; Wook Bum Pyun, Ewha Womens Univ Sch of Med, Seoul, Korea, Republic of; Soon Kil Kim, Hanyang Univ Medical Ctr, Seoul, Korea, Republic of
- P377 Real World of Ambulatory Arterial Stiffness Index and Central Aortic Pressures of Hypertensive Patients Treated by Their Primary Care Physicians**
Ricardo Cabrera-Sole, Liliana Urrera Rivera, Caridad Turpin Lucas, Santiago Garcia Ruiz, Univ Hosp of Albacete, Albacete, Spain

- P378 Current Progress of Antihypertensive Medication Use According to Healthy People 2020 Goals Among Adults With Hypertension- the National Health Interview Survey 2014-2015**
Jing Fang, Carma Ayala, Fleetwood Loustalot, CDC, Atlanta, GA
- P379 Patient and Caregiver Experiences With the Diagnosis of Neurogenic Orthostatic Hypotension**
Lawrence Arthur Hewitt, Lundbeck LLC, Deerfield, IL; Charles H. Adler, Mayo Clinic, Scottsdale, AZ; Daniel O. Claassen, Vanderbilt Univ Medical Ctr, Nashville, TN; Christopher H. Gibbons, Beth Israel Deaconess Medical Ctr, Harvard Medical Sch, Boston, MA; Satish R. Raj, Libin Cardiovascular Inst, Univ of Calgary, Calgary, AB, Canada
- P380 Blood Pressure Control Rates When Measured in a Specialty Clinic versus Primary Care Within a Large Integrated Health System**
Sarah J Billups, Joseph J Saseen, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Aurora, CO; Joseph P Vande Griend, Univ of Colorado Health, Aurora, CO; Lisa M Schilling, Univ of Colorado Sch of Med, Aurora, CO
- P381 Understanding the Symptoms of Neurogenic Orthostatic Hypotension: Results From a Survey of Patients and Caregivers**
Lawrence Arthur Hewitt, Lundbeck LLC, Deerfield, IL; Charles H. Adler, Mayo Clinic, Scottsdale, AZ; Daniel O. Claassen, Vanderbilt Univ Medical Ctr, Nashville, TN; Christopher H. Gibbons, Beth Israel Deaconess Medical Ctr, Harvard Medical Sch, Boston, MA; Satish R. Raj, Libin Cardiovascular Inst, Univ of Calgary, Calgary, AB, Canada
- P382 Management and Treatment of Neurogenic Orthostatic Hypotension: Results From a Survey of Patients and Caregivers**
Lawrence Arthur Hewitt, Lundbeck LLC, Deerfield, IL; Charles H. Adler, Mayo Clinic, Scottsdale, AZ; Daniel O. Claassen, Vanderbilt Univ Medical Ctr, Nashville, TN; Christopher H. Gibbons, Beth Israel Deaconess Medical Ctr, Harvard Medical Sch, Boston, MA; Satish R. Raj, Libin Cardiovascular Inst, Univ of Calgary, Calgary, AB, Canada
- P383 Pharmacist-led Digital Care Improved Community Hypertension Control by Increasing Medication Adherence in China**
Wenhao Qu, Sinopharm Group Company Limited, Shanghai, China; Hongwei Wang, Zhifang Yang, Shanghai Univ of Med and Health Science, Shanghai, China; Zhen Wang, **Kai Liu**, CareLinker Co., Ltd., Shanghai, China
- P384 Switching Insufficient Hypotensive Monotherapy to ARB and CCB Combination Tablet in Elderly Patients Increases Both Patient and Physician Satisfaction Rates and Contributes Better Patient-physician Concordance**
Yoshiyuki Ikeda, Kagoshima Univ, Kagoshima, Japan; Takeshi Sasaki, Makurazaki Municipal Hosp, Kagoshima, Japan; So Kuwahata, Tarumizu Chuo Hosp, Tarumizu Municipal Medical Ctr, Kagoshima, Japan; Yuichi Akasaki, Kagoshima Univ, Kagoshima, Japan; Chikuma Hamada, Faculty of Engineering, Tokyo Univ of Science, Tokyo, Japan; Mitsuru Ohishi, Kagoshima Univ, Kagoshima, Japan
- P385 Switching Insufficient Hypotensive Monotherapy to ARB/CCB Combination Tablet in Elderly Patients Increases Both Patient and Physician Satisfaction Rates and Contributes Better Patient-physician Concordance (Patients Voice study)**
Yoshiyuki Ikeda, KAGOSHIMA UNIVERSITY, Kagoshima, Japan
- P386 The Paraventricular Nucleus in Control of Blood Pressure and Its Role in Hypertension**
Tyler M Basting, Eric Lazartigues, Snigdha Murkerjee, Jiaxi Xu, Louisiana Health Sciences Ctr, New Orleans, LA
- P387 Depletion of Perivascular Macrophages in the Brain Delays Blood Pressure Elevation in Angiotensin II-salt Hypertensive Rats**
Masanobu Yamazato, Akio Ishida, Yoriko Yamazato, Takuto Nakamura, Yusuke Ohya, Graduate Sch of Med, Univ of the Ryukyus, Nishihara-cho Okinawa, Japan
- P388 Acute but Not Long-term Blood Pressure Lowering by Renal Denervation in Reduced Renal Mass, Salt Sensitive Hypertension**
Ionut Tudorancea, Grigore T. Popa Univ of Med and Pharmacy, Iasi, Romania; Thomas E. Lohmeier, Barbara T. Alexander, Univ of Mississippi Medical Ctr, Jackson, MS; Dragos Pieptu, Dragomir Serban, **Radu Iliescu**, Grigore T. Popa Univ of Med and Pharmacy, Iasi, Romania
- P389 Post-traumatic Stress-induced Sensitization of Angiotensin II Hypertension is Reversed by Blockade of Angiotensin-converting Enzyme or Tumor Necrosis Factor-alpha**
Baojian Xue, Yang Yu, Shun-Guang Wei, Terry G Beltz, Fang Guo, Robert B Felder, **Alan Kim Johnson**, Univ of Iowa, Iowa City, IA
- P390 Combining Olmesartan and Renal Denervation Elicits Strong Blood Pressure Reduction in Association With Sympatho-inhibitory and Aldosterone-reducing Effects in Hypertensive Mice With Chronic Kidney Disease**
Masaaki Nishihara, Yoshitaka Hirooka, Kyushu Univ, Fukuoka, Japan
- P391 Local Ionotropic Glutamate Receptors Contribute to the Sympathoexcitatory Effects of Leptin in the Paraventricular Nucleus**
Zhigang Shi, **Virginia L Brooks**, Oregon Health & Science Univ, Portland, OR

- P392 Autonomic Reflexes Mask the Hemodynamic Effects of Continuous Positive Airway Pressure**
Luis E Okamoto, Alfredo Gamboa, Jorge E Celedonio, Andre Diedrich, Sachin Y Paranjape, Italo Biaggioni, Vanderbilt Univ Medical Ctr, Nashville, TN
- P393 Orthostatic Heart Rate-Blood Pressure Relationship Identifies Neurogenic Orthostatic Hypotension**
 Alejandro Velasco, Univ of Alabama at Birmingham, Birmingham, AL; **Luis E Okamoto**, Emily M Garland, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN; Chang Yu, VANDERBILT UNIVERSITY, Nashville, TN; Italo Biaggioni, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN
- P394 Reduced Serum Butyrate Is Associated With Dampened Central Effects Of Butyrate On Blood Pressure In The Shr**
Tao YANG, Kacy Magee, Rebeca Arocha, Thomas Vickroy, Jasenka Zubcevic, UNIVERSITY OF FLORIDA, Gainesville, FL
- P395 A New Technique for Selective Denervation of the Aortic and Carotid Baroreceptors**
 Jaci A Castania, Pedro L Katayama, Fernanda Brognara, Univ of São Paulo, Ribeirão Preto, Brazil; João P Sabino, Federal Univ of Piauí, Teresina, Brazil; Rubens Fazan Jr., **Helio C Salgado**, Univ of São Paulo, Ribeirão Preto, Brazil
- P396 The Stroke Belt: Forged in the Heat of the Buckle? A Hypothesis**
Clarence Grim, High Blood Pressure Consulting, Stateline, NV
- P397 Living in Ethnic-enclave Neighborhoods May Attenuate the Negative Effect of Acculturation on Blood Pressure in Refugees and Maintain Immigrant Health Effect**
Ahmed Dalmar, Aurora Res Inst, AHC, Milwaukee, WI; Douglas Pryce, Hennepin County Medical Ctr, Minneapolis, MN; Brian Martinson, Farhiya Faraha, HealthPartners Inst for Education and Res, Minneapolis, MN; Sandra Wewerka, HealthPartners Inst for Education and Res, Minneapolis, MN; Diana Dubois, WellShare Intl, Minneapolis, MN; Laura Sanka, Wellshare Intl, Minneapolis, MN; Osman Ahmed, East Africa Health Project, Minneapolis, MN; Bjorn Westgard, HealthPartners Inst for Education and Res, Minneapolis, MN
- P398 Screening of Primary Aldosteronism by Clinical Features and Daily Laboratory Tests: Combination of Urine pH, Sex, and Serum K⁺**
Tomohisa Yamashita, Norihito Moniwa, Masayuki Koyama, Kohei Ohno, Dept of Cardiovascular, Renal and Metabolic Med, Sapporo Medical Univ, Sapporo, Japan; Hideaki Yoshida, Div of Cardiology and Nephrology, JR Sapporo Hosp, Sapporo, Japan; Tetsuji Miura, Dept of Cardiovascular, Renal and Metabolic Med, Sapporo Medical Univ, Sapporo, Japan
- P399 The Association of Serum Aldosterone with Sex, Age, and Sodium Status**
Ajay D Rao, Huaqing Zhao, Lewis Katz Sch of Med at Temple Univ, Philadelphia, PA; Ramachandran S Vasan, Boston Univ Sch of Med, Boston, MA; E Victor Adlin, Lewis Katz Sch of Med at Temple Univ, Philadelphia, PA
- P400 Relative Contributions of Systolic and Diastolic Blood Pressure to Adverse Cardiovascular Outcomes in an Outpatient Cohort of 1.3 Million Adults**
Alexander C Flint, Kaiser Permanente, Redwood City, CA; Carol Conell, Kaiser Permanente, Oakland, CA; Xiushui Ren, Nader Banki, Sheila L Chan, Vivek A Rao, Ron B Melles, Kaiser Permanente, Redwood City, CA; Deepak L Bhatt, Harvard Univ, Boston, MA
- P401 The Progress of Carotid Atherosclerosis is Associated With Incident Stroke and Coronary Heart Disease: The Suita Study**
Yoshihiro Kokubo, Makoto Watanabe, Aya Higashiyama, Yoko M Nakao, Fumiaki Nakamura, Yoshihiro Miyamoto, Natl Cerebral and Cardiovasc Ctr, Suita, Osaka, Japan
- P402 Familial Clustering of Hypertensive Target Organ Damage in the Community**
Teemu J. Niiranen, Framingham Heart Study, Framingham, MA; Honghuang Lin, Boston Univ Sch of Med, Boston, MA; Martin G. Larson, Ramachandran S. Vasan, Framingham Heart Study, Framingham, MA
- P403 Seasonal Variation in the Daily Urinary Sodium Excretion in Outpatients From the Northern Japan**
Tomoko Hashimoto, Iwate Prefectural Hosp, Morioka, Japan
- P404 Association of Hemoglobin Level With Blood Pressure in the Japanese General Population**
Yoshiaki Ohyama, Clinical Investigation and Res Unit, Gunma Univ Hosp, Maebashi, Japan; Keisuke Ichikawa, Dept of Cardiovascular Med, Gunma Univ Graduate Sch of Med, Maebashi, Japan; Kunihiko Imai, Dept of Internal Med, Gunma Chuo Hosp, Maebashi, Japan; Hisako Sumiyoshi, Clinical Investigation and Res Unit, Gunma Univ Hosp, Maebashi, Japan; Yuichiro Saito, System integration Ctr, Gunma Univ Hosp, Maebashi, Japan; Tetsuya Nakamura, Clinical Investigation and Res Unit, Gunma Univ Hosp, Maebashi, Japan; Masahiko Kurabayashi, Dept of Cardiovascular Med, Gunma Univ Graduate Sch of Med, Maebashi, Japan

- P405 Impact of Uric Acid on Incident Hypertension in the Japanese General Population**
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- P406 Sleep Health as an Important Determinant of Elevated Blood Pressure: A Population Based Study**
Sumaira Khalid, West Virginia Univ, Morgantown, WV
- P407 Five-year Longitudinal Bp In Treated Hypertensive Patients Shows Evidence For Diastolic J-curve And Cardiovascular Outcomes**
Li E Tan, Stefanie Lip, Lindsay McCallum, Rhian Touyz, Anna F Dominiczak, Sandosh Padmanabhan, Univ of Glasgow, Glasgow, United Kingdom
- P408 Waist-to-height Ratio Index For Predicting The Incidence Of Hypertension**
Jung Ran Choi, Yonsei Univ, Wonju, Korea, Republic of
- P409 Defective Renal Ang III and AT2 Receptor Signaling in Pre-hypertensive Spontaneously Hypertensive Rats (SHR)**
Brandon A. Kemp, Nancy L. Howell, Shetal H. Padia, Susanna R. Keller, John J. Gildea, Robert M. Carey, Univ of Virginia Health System, Charlottesville, VA
- P410 Characterization of the Renin-angiotensin System in Induced Pluripotent Stem Cell-derived Human Kidney Organoids**
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- P411 Angiotensin-(1-7) Preserves Mitochondrial Function in Doxorubicin-exposed Renal Epithelial Cells** David Soto-Pantoja, Wake Forest Sch of Med, Winston Salem, NC; Nildris Cruz-Diaz, Wake Forest Sch of Med, Winston-Salem, NC; Mark C Chappell, Wake Forest Sch of Med, Winston Salem, NC
- P412 Genetically Increased Angiotensin I-converting Enzyme and Peripheral and Renal Vascular Reactivity in Mice**
Catherine Chollet, Sandrine Placier, Christos Chatziantoniou, INSERM, Paris, France; Annette Hus-Citharel, CIRB Coll de France, Paris, France; Nathalie Caron, Univ of Namur, Namur, Belgium; Ronan Roussel, Francois Alhenc-Gelas, Nadine Bouby, INSERM, Paris, France
- P413 Vascular AT1 Receptors Control Blood Pressure by Augmenting Peripheral Vascular Resistance in Female Mice**
Erin Wolf, Edward Diaz, Hooman Azad, Aaron Kupin, Matthew A Sparks, Duke Univ Medical Ctr, Durham, NC
- P414 Blockade of Sodium Glucose Cotransporter 2 by Canagliflozin Suppresses High Glucose-induced Angiotensinogen Augmentation in Renal Proximal Tubular Cells**
Ryousuke Satou, T. Cooper Woods, Kayoko Miyata, Michael W Cypress, Akemi Katsurada, Courtney M Dugas, Daniel Lightell Jr, L. Gabriel Navar, Dept of Physiology and Hypertension and Renal Ctr of Excellence, Tulane Univ Sch of Med, New Orleans, LA
- P415 ACE N-domain Regulates High-glucose Mediated Interleukin-1 beta Production by Renal Epithelial Cells Independently From Angiotensin II Generation**
Jorge F Giani, Ellen A. Bernstein, Masahiro Eriguchi, Cedars-Sinai Medical Ctr, Los Angeles, CA; Romer A. Gonzalez-Villalobos, Internal Med Res Unit, Pfizer, Inc, Los Angeles, CA; Kenneth E. Bernstein, Cedars-Sinai Medical Ctr, Los Angeles, CA
- P417 The Elevation of Blood Pressure in Adipocyte Prorenin Receptor Deficient Female Mice is Mediated by a Local AngII Dependent Mechanism**
Eva Gatineau, Diane Cohn, Ming Gong, Frederique Yiannikouris, Univ of Kentucky, Lexington, KY
- P418 PPAR γ Targets both (Pro)Renin Receptor and Site-1 Protease in the Collecting Duct to Mediate Rosiglitazone-induced Fluid Retention**
Tianxin Yang, Fei Wang, Univ Utah, Salt Lake City, UT; Ziwei Fu, Sun Yat-sen Univ, Guangzhou, China; Chang-Jiang Zou, Kexin Peng, Univ Utah, Salt Lake City, UT; Jiajia Hu, Sun Yat-sen Univ, Guangzhou, China; Guangju Guan, Shandong Univ, Jinan, China; Long Zhao, Univ Utah, Salt Lake City, UT
- P419 Klotho Ameliorate Medullary Fibrosis and Pressure Natriuresis in Hypertensive Rat Kidneys**
Tsuneo Takenaka, Hirofumi Kobori, Intl Univ of Health, Tokyo, Japan; Tsutomu Inoue, Takashi Miyazaki, Hiromichi Suzuki, Saitama Medical Univ, Saitama, Japan; Akira Nishiyama, Kagawa Univ, Kagawa, Japan; Naohiro Ishii, Kitasato Univ, Kanagawa, Japan; Matsuhiko Hayashi, Keio Univ, Tokyo, Japan

- P420 Sexual Difference of Tubular Renin Angiotensin System (RAS) in 2 Kidney 1 Clip Rats**
Ju Young Moon, Yang Gyun Kim, Chun-Gyoo Ihm, Tae Won Lee, Kyung Hwan Jeong, Yu Ho Lee, Kipyo Kim, Nephrology, Seoul, Korea, Republic of; Il Suk Sohn, Cardiology, Seoul, Korea, Republic of; Seon Hwa Park, Dong Jin Kim, Nephrology, Seoul, Korea, Republic of
- P421 The Effects of Dual Angiotensin Receptor and Nephilysin Inhibitor on Organoprotection in Experimental Model of Chronic Heart Failure**
Libor Kopkan, Lenka Hosková, Vojtech Melenovský, Zuzana Husková, Ludek Cervenka, Inst for Clinical and Exp Med, Prague 4, Czech Republic
- P422 Two-kidney One Clip (2k1c) Hypertension Reduces Complexity of Heart Rate Variability in Mice**
 Fernanda L Rodrigues, Luiz E Silva, Carlos A Silva, Univ of San Paulo, Ribeirao Preto, Brazil; Fernando S Carneiro, Rita C Tostes, Univ of San Paulo, Ribeirão Preto, Brazil; Rubens Fazan Jr, **Helio C Salgado**, Univ of San Paulo, Ribeirao Preto, Brazil
- P423 Chronic Doxycycline Administration Inhibits Angiotensin Converting Enzyme Activity and Exerts Antioxidants Effects in Renovascular Hypertensive Rats**
Elen Rizzi Sanchez, Giselle F Bonacio, Univ of Ribeirao Preto, Ribeirao Preto, Brazil; Danielle A Guimaraes, Gustavo Oliveira Paula, Jefferson Henrich Amaral, Univ of Sao Paulo, Ribeirao Preto, Brazil; Victoria Becker M Fernandez, Univ of Ribeirao Preto, Ribeirao Preto, Brazil; Jose Eduardo Tanus-Santos, Univ of Sao Paulo, Ribeirao Preto, Brazil
- P424 Assessment of the RAAS-status Using Triple-A-Testing: Combining Molecular Profiling of Hypertension With Advanced Screening for Primary Aldosteronism in a Single Blood Test**
 Oliver Domenig, Cornelia Schwager, Dunja van Oyen, Martin Leitner, Claudia Ziegelmayer, Christian Fabsich, **Marko Poglitsch**, Attoquant Diagnostics, Vienna, Austria
- P425 Ras Blockade Alone or Combined With Inhibition of Soluble Epoxide Hydrolase: Effects on the Course of Congestive Heart Failure in Ren-2 Transgenic Hypertensive Rats With Aorto-caval Fistula**
Petr Kala, Lenka Sedlakova, Zdenka Vanourkova, Libor Kopkan, Ctr for Experimental Med, Inst for Clinical and Experimental Med, Prague, Czech Republic; Janusz Sadowski, Elzbieta Kompanowska-Jezierska, Dept of Renal and Body Fluid Physiology, Mossakowski Medical Res Ctr, Warsaw, Poland; Sung Hee Hwang, Bruce Hammock, Dept of Entomology and Nematology, and UC Davis Comprehensive Cancer Ctr, Univ of California, Davis, CA; Ludek Cervenka, Ctr for Experimental Med, Inst for Clinical and Experimental Med, Prague, Czech Republic
- P426 Suppression of Intrarenal Ras With a 20-hydroxyeicosatetraenoic Acid Antagonist Attenuates Ang II-dependent Malignant Hypertension and Reverses Established Ang-II-dependent Hypertension in Cyp1a1-ren-2 Transgenic Rats**
Lenka Sedlakova, Libor Kopkan, Zuzana Huskova, Sona Kikerlova, Věra Certikova-Chabova, Ctr for Experimental Med, Inst for Clinical and Experimental Med, Prague, Czech Republic; John Falck, Dept of Biochemistry, Univ of Texas Southwestern Medical Ctr, Dallas, TX; Janusz Sadowski, Dept of Renal and Body Fluid Physiology, Mossakowski Medical Res Ctr, Warsaw, Poland; Ludek Cervenka, Ctr for Experimental Med, Inst for Clinical and Experimental Med, Prague, Czech Republic
- P427 Inhibition of the Regulator of G Protein Signaling 14, a Novel Anti-Hypertensive Mechanism**
Jie Zhang, John J Guers, Marko Oydanich, Dorothy E Vatner, Stephen F Vatner, Rutgers Univ- New Jersey, Newark, NJ
- P428 Internalization of Angiotensinogen is Coupled to Oxidative Stress in Human Retinal Epithelial Cells**
 Victor M Pulgar, Nildris Cruz-Diaz, Brian M Westwood, **Mark C Chappell**, WAKE FOREST SCHOOL MEDICINE, Winston Salem, NC
- P429 The Kidney Vasculature Plays a Central Role in the Ability of the Kidney to Regenerate After Injury**
Vidya K. Nagalakshmi, Minghong Li, Maria Luisa S. Sequeira-Lopez, Univ of Virginia, Charlottesville, VA
- P430 Soluble Epoxide Hydrolase Inhibition Augments Ras Blockade Renoprotection in 5/6 Nephrectomized Ren-2 Transgenic Hypertensive Rats With Chronic Kidney Disease**
Věra Certikova-Chabova, Petr Kujal, Petra Skaroupkova, Zdenka Vanourkova, Libor Kopkan, Zuzana Huskova, Lenka Sedlakova, Ctr for Experimental Med, Inst for Clinical and Experimental Med, Prague, Czech Republic; Janusz Sadowski, Elzbieta Kompanowska-Jezierska, Dept of Renal and Body Fluid Physiology, Mossakowski Medical Res Ctr, Warsaw, Poland; Sung Hee Hwang, Bruce Hammock, Dept of Entomology and UCD Cancer Ctr, Univ of California, California, CA; John Imig, Dept of Pharmacology and Toxicology, Medical Coll of Wisconsin, Prague, WI; Ludek Cervenka, Ctr for Experimental Med, Inst for Clinical and Experimental Med, Prague, Czech Republic
- P431 Renal Artery Stenosis Caused by a Bcr-Abl Tyrosine Kinase Inhibitor: Blood Pressure Response to Revascularization**
Swapnil Hiremath, Syed Obaid Amin, Marcel Ruzicka, Kevin Burns, Ottawa Hosp, Ottawa, ON, Canada

- P432 The Effect of Carbonyl Stress on Renal Injury Induced by Renal Congestion**
Yusuke Ohsaki, Chika Takahashi, Tohoku Univ, Sendai, Japan; Takefumi Mori, Tohoku Medical and Pharmaceutical Univ, Sendai, Japan; Sadayoshi Ito, Tohoku Univ, Sendai, Japan
- P433 Impact of Renal Function on Outcomes After Percutaneous Transluminal Renal Angioplasty in Hypertensive Patients With Renal Artery Stenosis**
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- P434 Role of Dusp5 in Hypertension Induced Chronic Renal Disease**
Xiaochen He, Chao Zhang, Sydney Murphy, Paige N Mims, **Fan Fan**, Univ of Mississippi Medical Ctr, Jackson, MS
- P435 Differential Responses of Cerebral Cortical and Renal Cortical Microvessels to Perfusion Pressure and Angiotensin II: Effect of Angiotensin II or DOCA/salt Hypertension**
Lingli Li, Georgetown Univ, Washington DC, DC; En Yin Lai, Georgetown Univ, Washington DC, Zhejiang Univ, Hangzhou, China; William J. Welch, Christopher S. Wilcox, Georgetown Univ, Washington DC, DC
- P436 Intrarenal Ghrelin Receptor Inhibition Prevents Sodium Retention and Reduces Blood Pressure in Angiotensin II-induced Hypertension**
Brandon A Kemp, Nancy L. Howell, Shetal H. Padia, Univ of Virginia, Charlottesville, VA
- P437 The Extracellular Domain of Na⁺/K⁺ATPase Serves as a Receptor for Cyclic GMP in Mediating Natriuresis**
Brandon A. Kemp, Nancy L. Howell, Susanna R. Keller, John J. Gildea, Josh D. Hinkle, Jeffrey Shabanowitz, Donald F. Hunt, **Robert M Carey**, Univ of Virginia Health System, Charlottesville, VA
- P438 Cardio-Renal Anemia Syndrome in acute heart failure patients: An Observational data from "Gulf-CARE" Heart Failure Registry**
Mohammed Al Jarallah, **Rajesh Rajan Sr.**, Sabah Al Ahmad Cardiac Ctr, Al-Amiri Hosp, Kuwait City, Kuwait; Ahmed R. Al-Saber, Kuwait Technical Coll (K-Tech), Kuwait City, Kuwait; Raja Dashti, Bassam Bulbanat, Sabah Al Ahmad Cardiac Ctr, Al-Amiri Hosp, Kuwait City, Kuwait; Mustafa Ridha, Adan Hosp, Kuwait City, Kuwait; Khadhim Sulaiman, Prashanth Panduranga, Royal Hosp, Oman, Oman; Alawi Alshekh-Ali, Inst of Cardiac Sciences, Sheikh Khalifa Medical City, Abu Dhabi, United Arab Emirates; Khalid Al Habib, King Fahad Cardiac Ctr, Riyadh, Saudi Arabia; Jassim Al Suwaidi, Qatar Cardiovascular Res Ctr, Doha, Qatar; Wael Al Mahmeed, Cleveland Clinic, Abu Dhabi, United Arab Emirates; Hussam Al Faleh, King Fahad Cardiac Ctr, Riyadh, Saudi Arabia; Abdelfatah Elasar, King Salman Heart Ctr, Riyadh, Saudi Arabia; Ahmed Al Motarreb, Faculty of Med, Sana'a Univ, Sana'a, Yemen; Nooshin Bazargani, Dubai Hosp, Dubai, United Arab Emirates; Nidal Asaad, Qatar Cardiovascular Res Ctr, Doha, Qatar; Haitham Amin, Mohammed Bin Khalifa Cardiac Ctr, Bahrain, Bahrain
- P439 Fibromuscular Dysplasia Of The Iliac And Renal Arteries: A Rare Case Report And Literature Review**
Luyun Fan, Wenjun Ma, Huimin Zhang, Jun Cai, State Key Lab of Cardiovascular Disease, Natl Ctr for Cardiovascular Diseases, Fuwai Hosp, Chinese Acad of Medical Sciences and Peking Union Medical Coll, Beijing, China
- P440 Renin-angiotensin Signal Develops Arterial Senescence and Atherosclerosis via Modulation of Mitochondrial Dynamics**
Yoshiyuki Ikeda, Masaaki Iwabayashi, Yuichi Sasaki, Yuichi Akasaki, Koji Higuchi, Masaaki Miyata, Mitsuru Ohishi, Kagoshima Univ, Kagoshima, Japan
- P441 Accelerated Age-dependent Cardiovascular and Cognitive Decline in Dahl-S Rats is Associated with Elevated Levels of an Endogenous Na/K-ATPase Inhibitor**
Olga V Fedorova, Yulia N Grigorova, Jeffrey M Long, Rebecca L McPherson, Ondrej Juhasz, Wen Wei, Valentina Zernetkina, Natalia Petrashevskaya, Kenneth W Fishbein, Richard G. Spencer, Peter R Rapp, Edward G Lakatta, Natl Inst on Aging, NIH, Baltimore, MD
- P442 Estradiol Treatment Attenuates the Ovariectomy-induced Increase in Blood Pressure in the Middle Aged Dahl Salt Sensitive Rat as Long as Treatment is Initiated Immediately After Ovariectomy**
Hong Ji, Crystal A West, Xie Wu, Amrita Pai, Aline Souza, Parnika Kadam, David A West Jr, Michelle J Zhu, Kathryn Sandberg, Georgetown Univ Sch of Med, Washington, DC
- P443 Multiple Chronic Conditions in Older Adults: Implications for Clinical Trials & Guidelines in Hypertension**
Brent M Egan, Susan E Sutherland, Valinda Rutledge, Robert A. Davis, Care Coordination Inst, Greenville, SC; Peter L Tilkemeier, Univ of South Carolina Sch of Med - Greenville, Greenville, SC; Angelo Sinopoli, Care Coordination Inst, Greenville, SC
- P444 Surveillance, Control, and Prevention Systems and Community Engagement Process of Hypertension in Singburi, Thailand**
Vichai Tiienthavorn, Univ of Phayao, Muang Phayao, Thailand

- P445 **Sympathetic and Renal Mechanisms of Age related Hypertension**
Richard D Wainford, Alissa A Frame, Boston Univ, Boston, MA
- P446 **Sestrin2 Suppresses Age-related Hypertrophy by Inhibiting mTORC1 Signaling Pathway**
Nanhu Quan, Courtney Cates, Thomas Rousselle, Ji Li, Univ of Mississippi Med Ctr, Jackson, MS
- P447 **Hesperidin, Ingredient of Citrus Fruits Juice, Attenuates 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
- P448 **Interaction Between Ischemic Brain Injury and Amyloid- β Deposition in Cognitive Decline; Possible Cognitive Protection by AT₂ Receptor Activation**
Li-Juan Min, Masaki Mogi, Kana Tsukuda, Hui-Yu Bai, Bao-Shuai Shan, Akinori Higaki, Jun Iwanami, Masatsugu Horiuchi, Ehime Univ Sch of Med, Tohon, Ehime, Japan
- P450 **AT2 Receptor Stimulation Reduces Ischemic Brain Damage Through AT2 Receptor-interacting Protein Signal**
Jun Iwanami, Masaki Mogi, Xiao-Li Wang, Kana Tsukuda, Akinori Higaki, 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
- P451 **Cerebrovasuclular Events in Patients With Primary Aldosteronism: Results of the PA Sendai Study Registry**
Masataka Kudo, Ryo Morimoto, Div of Nephrology, Endocrinology and Vascular Med, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Syuji Mugikura, Dept of Diagnostic Radiology, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Yuta Tezuka, Kei Omata, Mashiro Nezu, Yasuhiro Igarashi, Div of Nephrology, Endocrinology and Vascular Med, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Kazumasa Seiji, Kei Takase, Dept of Diagnostic Radiology, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Sadayoshi Ito, Div of Nephrology, Endocrinology and Vascular Med, Tohoku Univ Graduate Sch of Med, Sendai, Japan; Fumitoshi Satoh, Div of Clinical Hypertension, Endocrinology & Metabolism, Tohoku Univ Graduate Sch of Med, Sendai, Japan
- P452 **Evaluation of Pathological Basis of a Shrsp-based Congenic Strain Characterized by Early Stroke Occurrence**
Hiroki Ohara, Davis L Ngarashi, Toru Nabika, Shimane Univ, Izumo, Japan
- P453 **Hypertension Mortality Risk May be Fake News for Nonagenarians**
Raya Elfadel Kheirbek, George Washington Univ Sch of Med and Health Sciences, Washington DC, DC; Farrokh Alemi, George Mason Univ Dept of Health Admin and Policy, Fairfax, VA; Ross D. Fletcher, Georgetown Univ Sch of Med, Washington DC, DC
- P454 **Does Intensive Pulse Pressure control results in lower rates of cardiovascular events? An Analysis of Systolic BP Intervention Trial (SPRINT) database**
Quan Tran, Pinnacle Health, Harrisburg, PA
- P455 **Obesity Types (Body Mass Index vs. Waist Circumference) Affect on Development of Major Cardiovascular Risks: Data From Korean National Health Insurance Service - National Sample Cohort (NHIS-NSC)**
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- P456 **Examining Framingham Coronary Heart Disease 10-year Risk Reduction in Individuals Treated With Lorcaserin, a Selective 5HT_{2c} Receptor Agonist for Weight Management**
Russell Knoth, Xuan Li, Debanjana Chatterjee, Eisai, Inc., Woodcliff Lake, NJ; Ken Fujioka, Scripps Health, San Diego, CA
- P457 **Hypertensive, Type II Diabetic and Obese Patients, Are Better Controlled and Reduce the Number of Drugs When Empagliflozin is Added to Standard Treatment Improving Also Arterial Stiffness and Central Blood Pressures**
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- P458 **Assessment of Cardiovascular Risk Reduction in Adults With Metabolic Syndrome or Type 2 Diabetes Treated With Lorcaserin: A Pooled Cohort Analysis**
Debanjana Chatterjee, Xuan Li, Elena Nikonova, Eisai, Inc., Woodcliff Lake, NJ; Michael Miller, Univ of Maryland, Sch of Med, Baltimore, MD
- P459 **The BBSome Mediate the Sorting of the Serotonin 5-HT_{2C} Receptor to the Plasma Membrane in POMC Neurons**
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- P460 **Blood Pressure Changes After 52 Week Treatment With Lorcaserin: A Post HOC Analysis of Phase III Clinical Trials**
Elena Nikonova, Sharon Zhou, Carlos Perdomo, Bruce Francis, Eisai, Woodcliff Lake, NJ; Mikhail Kosiborod, Saint Luke's Mid America Heart Inst and Univ of Missouri, Kansas City, MO
- P461 **The Association of NOV/CCN3 With Obstructive Sleep Apnea in Severe Morbid Obesity: Preliminary Evidence of a Novel Biomarker in OSA**
Jeremy A. Weingarten, NewYork-Presbyterian Brooklyn Methodist Hosp, Brooklyn, NY; Lars Bellner, New York Medical Coll, Valhalla, NY; Stephen J. Peterson, Moe Zaw, Puja Chadha, Hemal H. Mehta, NewYork-Presbyterian Brooklyn Methodist Hosp, Brooklyn, NY; Nader G. Abraham, New York Medical Coll, Valhalla, NY
- P462 **MiRNA and Biomarkers of Metabolic Syndrome: Correlating Biomarkers for Early Detection of Metabolic Syndrome in Obese Females in West Virginia**
Hari Vishal Lakhani, Dana Sharma, Athar Nawab, Komal Sodhi, Marshall Univ Res Corp., Huntington, WV
- P463 **Deterioration of Vasomotor Regulation of Perivascular Adipose Tissue at Later Stage of Metabolic Syndrome**
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- P464 **Sodium Glucose Cotransporter 2 Inhibition by Canagliflozin Attenuates Intrarenal Angiotensinogen Augmentation in Type 2 Diabetes Mellitus**
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- P465 **Arterial Hypertension and Orthostatic Hypotension in Diabetic Patients**
Ludovit Gaspar, Comenius Univ, Bratislava, Slovakia; Slavomira Filipova, Slovak Health Univ and Natl Inst of Cardiovascular Diseases, Bratislava, Slovakia; Matej Bendzala, Iveta Gasparova, Comenius Univ, Bratislava, Slovakia
- P466 **Circadian Rhythm Disruptions in a Novel Diabetic *db/db-mPer2^{Luc}* Mouse Model**
Tianfei Hou, Univ Kentucky, Dept. of Pharmacology and Nutritional Sciences, Lexington, KY; Wen Su, **Ming C Gong**, Univ Kentucky, Dept. of Physiology, Lexington, KY; Zhenheng Guo, Univ Kentucky, Dept. of Pharmacology and Nutritional Sciences, Lexington, KY
- P467 **Urocortin 2 Levels and Metabolic Profile in Patients With Primary Hypertension**
Jolanta Walczewska, Olga Siga, Anna Dzieża-Grudnik, Univ Hosp JUMC, Dept of Internal Diseases and Gerontology, Cracow, Poland; Paweł Wolkow, Agnieszka Borys, Univ Hosp JUMC, Ctr for Medical Genomics OMICRON, Cracow, Poland; Barbara Wizner, Barbara Gryglewska, Tomasz Grodzicki, Univ Hosp JUMC, Dept of Internal Diseases and Gerontology, Cracow, Poland
- P468 **Stimulation of Diuresis and Salt Excretion by Renomedullary Infusion of a Dual Inhibitor of Fatty Acid Amide Hydrolase (FAAH) and Monoacylglycerol Lipase (MAGL)**
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- P469 **CRISPR-Cas9 Gene Editing Yields Genetic Regulation of Obesity and Metabolism in Female LH-derived Rats**
Karen C Clark, Justin L Grobe, Anne E Kwitek, Univ of Iowa-Carver Coll of Med, Iowa City, IA
- P470 **Cardiac Autonomic Neuropathy Develops As A Result Of Mild Hypercaloric Intake In Absence Of Signs Of Diabetes: Modulation By Anti-diabetic Drugs.**
Ahmed El-Yazbi, Ola Al-Assi, Rana Ghali, Abdullah Kaplan, Nahed Mougharbil, Ali H. Eid, **Fouad A. Zoueiri**, AUBMC, Beirut, Lebanon
- P471 **Increased Salt Intake Reduces Diet-induced Thermogenesis in Healthy Men**
Nicola Wilck, Anja Mähler, Lars Klug, Samuel Klamer, Lajos Marko, Nadine Haase, Jochen Steiniger, Andras Balogh, Michael Boschmann, ECRC, Berlin, Germany; Dominik N. Müller, ECRC and Max Delbrück Ctr for Molecular Med, Berlin, Germany
- P472 **Prorenin Independently Causes Hypertension And Renal and Cardiac Fibrosis in Cyp11a1-Prorenin Transgenic Rats**
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- P473 **Group IV Cytosolic Phospholipase A2α is Critical for Norepinephrine-Induced Hypertension**
Ajeeth K Pingili, Chi Yong Song, Ji Soo Shin, Univ Of Tennessee Health Science Ctr, Memphis, TN; Joseph V Bonventre, Harvard Medical Sch, Harvard Inst of Med, Boston, MA; Kafait U Malik, Univ Of Tennessee Health Science Ctr, Memphis, TN

- P474 Comparison of the Effect of Different Calcium Channel Antagonists on Arterial Stiffness and Central Pressures in Moderate Hypertensive Patients Receiving Enalapril as First Line Treatment**
Ricardo Cabrera-Sole, Caridad Turpin Lucas, Liliana Rivera Urrera, Santiago Garcia Ruiz, Manuel Aguilera Saldaña, Univ General Hosp of Albacete, Albacete, Spain
- P475 What's in a Letter: N vs. J Determines Responses to Ang II/DOCA and DPP4 Gene Deletion**
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- P47 8-Aminoguanosine Exerts Diuretic and Natriuretic Activity via Conversion to 8-Aminoguanine**
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- P477 Effect of Zamicastat on Blood Pressure and Heart Rate - Comparison Between Acute and Repeated Dosing in the SHR**
Bruno Igreja, Nuno Pires, Paul Moser, Patricio Soares-da-Silva, Bial, Trofa, Portugal
- P478 Barriers to Health Care Access and Hypertension Treatment Among Us Adults With Self-reported Hypertension**
Jing Fang, Guijing Wang, Carma Ayala, Sal Lucido, Fleetwood Loustatol, CDC, Atlanta, GA
- P479 Stability of Ambulatory Blood Pressure Patterns Over Time in Children and Adolescents**
Coral D Hanevold, Univ of Washington Sch of Med, Seattle, WA; Yosuke Miyashita, Univ of Pittsburgh Sch of Med, Pittsburgh, PA; Joseph T. Flynn, Univ of Washington Sch of Med, Seattle, WA
- P480 Effects Of Long And Intermediate Acting Dihydropyridine Calcium Channel Blockers In Hypertension: A Systematic Review And Meta-analysis Of 18 Prospective, Actively Controlled, Randomized Clinical Trials**
Sandip Chaugai, Vanderbilt Univ, Nashville, TN; Hisatomi Arima, Fukoka Univ, Fukoka, Japan; Lhamo Yangchen Sherpa, Univ Of Oslo, Oslo, Norway; Amir Sepehry, Univ of British Columbia, Vancouver, BC, Canada
- P481 Key Findings From Multilevel Stakeholder Input On Awareness, Gaps And Needs Related To The Burden Of Hypertension**
Lakshmi Venkitachalam, UMKC SCHOOL OF MEDICINE, Kansas City, MO; Tru-Kechia Smith, American Heart Association, Kansas City, KS
- P482 Different Hemodynamic Phenotypes Of Isolated Systolic Hypertension In Adolescents**
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- P483 Healing a Broken Heart Using a Closed-loop, Allostatic, Neurotechnology: A Case Study in a Patient Suffering From Takotsubo Syndrome**
Charles H Tegeler, Catherine L Tegeler, Hossam A Shaltout, Wake Forest Univ, Winston Salem, NC
- P484 Improved Heart Rate Variability, and Symptoms of Insomnia and Stress, With Use of a Closed-loop, Allostatic Neurotechnology in Law Enforcement Officers**
Catherine L Tegeler, Hossam A Shaltout, Lindsay J Howard, Krystal D Schmidt, Emilee I Garlin, Charles H Tegeler, Wake Forest Sch Univ, Winston Salem, NC
- P485 Use of a Noninvasive, Closed-loop, Allostatic, Neurotechnology Reduced Blood Pressure and Improved Heart Rate Variability in a Pre-hypertensive Cohort**
Hossam A Shaltout, Catherine L Tegeler, Charles H Tegeler, Wake Forest Univ, Winston Salem, NC
- P486 Effects of Isometric Leg Training on Ambulatory Blood Pressure and Morning Blood Pressure Surge in Young Normotensive Men and Women**
Anthony W Baross, Univ of Northampton, Northampton, United Kingdom; Kevin J Milne, Cheri L McGowan, Univ of Windsor, Windsor, ON, Canada; Ian L Swaine, Univ of Greenwich, Northampton, United Kingdom
- P487 Self-management and Physical Activity in African Americans With Hypertension**
Linda P. Bolin, Patricia B. Crane, James R. Powell, East Carolina Univ, Greenville, NC
- P488 Antihypertensive Effects of Lactotripeptides on Unattended Office and Ambulatory Blood Pressure. A Randomized, Double-blind, Placebo-controlled Study**
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- P489 Effect of Continuous Intake of Hesperidin on Blood Pressure in 2-kidney, 1-clip Renovascular Hypertensive Rats**
Ayuna Yamaoka, Yukiko Segawa, Saki Maruyama, Natsumi Saito, Kobe Women's Univ, Kobe, Japan; Hiroko Hashimoto, Osaka Seikei Junior Coll, Osaka, Japan; Tomoko Osera, Nobutaka Kurihara, Kobe Women's Univ, Kobe, Japan

- P490 **Dream-Global Study**
Sheldon W Tobe, Sunnybrook Health Sciences Ctr, Toronto, ON, Canada
- P491 **Characterizing Agreement in Level of Inter-extremity Blood-Pressure Readings of Adults in the Emergency Department (CALIBRATE Study)**
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- P492 **Lower Body Mass Index is Associated With Arterial Stiffening and Severity of Orthostatic Hypotension in Middle-aged and Older Patients With Abdominal Obesity**
Yusuke Kobayashi, Saiseikai Yokohamashi Nanbu Hosp, Yokohama, Japan; Tetsuya Fujikawa, Yokohama Natl Univ, Yokohama, Japan; Keisuke Yatsu, Yokohama City Univ, Yokohama, Japan; Tamio Iwamoto, Saiseikai Yokohamashi Nanbu Hosp, Yokohama, Japan; Nobuhito Hirawa, Yokohama City Univ, Yokohama, Japan; Hideo Kobayashi, The Kobayashi Medical Clinic, Yokohama, Japan; Satoshi Umemura, Yokohama Rosai Hosp, Yokohama, Japan; Kouichi Tamura, Yokohama City Univ, Yokohama, Japan
- P493 **Multiple-ascending-dose Study of IW-1973, a Soluble Guanylate Cyclase Stimulator**
John Hanrahan, James Wakefield, Phebe Wilson, Marina Mihova, Jennifer Chickering, Ironwood Pharmaceuticals, Cambridge, MA; Dennis Ruff, ICON Early Phase Services, San Antonio, TX; Michael Hall, Todd Milne, Mark Currie, Albert Profy, Ironwood Pharmaceuticals, Cambridge, MA
- P494 **Long-term Outcomes of a Cluster-randomized Trial Testing the Effects Blood Pressure Telemonitoring and Pharmacist Management**
Karen L Margolis, Stephen E Asche, Anna R Bergdall, Steven P Dehmer, Healthpartners Inst, Minneapolis, MN; Beverly B Green, Kaiser Permanente Washington Health Res Inst, Seattle, WA; JoAnn M Sperl-Hillen, Patrick J O'Connor, Rachel A Nyboer, Pamala A Pawloski, Michael V Maciosek, Nicole K Trower, Healthpartners Inst, Minneapolis, MN
- P496 **Effects of *Nitrosomonas Eutropha* D23 Topical Spray on Blood Pressure: Results From a Randomized, Double-blind, Vehicle Controlled, Dose-ranging Study in Normotensive Adults**
Peter Hino, Stephens and Associates; Dermatology Ctr of Dallas, Dallas, TX; Yan Liu, Lilly Jiang, Stephens and Associates, Richardson, TX; **Lawrence Weiss**, Spiros Jamas, AOBloome, Cambridge, MA; Joel M Neutel, Orange County Res Ctr, Tustin, CA
- P497 **Re-analysis of the Systolic Blood Pressure Intervention Trial (SPRINT): The Renal Consequences of Intensive versus Standard Blood Pressure Lowering**
Leora Branfield Day, David M Naimark, Univ of Toronto, Toronto, ON, Canada
- P498 **Redox Regulation of Vascular Smooth Muscle cGMP Signaling and Blood Pressure by Cytochrome B5 Reductase 3**
Adam C Straub, Mizanur Rahaman, Anh Nguyen, Megan Miller, Scott Hahn, Univ of Pittsburgh, Pittsburgh, PA; Emil Martin, Univ of Texas at Houston, Houston, TX
- P499 **Protein Kinase C α Deletion Causes Hypotension Due to Decreased Vascular Contractility**
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- P500 **Activation of the Heterodimeric Erythropoietin / β -Common Receptor Impairs Acetylcholine Mediated Vasodilation in Mouse Mesenteric Arterioles**
Cody R Kilar, YanPeng Diao, Larysa Sautina, Univ of Florida, Gainesville, FL; Sivakumar Sekharan, Shahar Keinan, Cloud Pharmaceuticals, Research Triangle Park, NC; Kirk P Conrad, Univ of Florida, Gainesville, FL; Mark S Segal, Dept of Veterans Affairs Medical Ctr, North Florida/South Georgia Veterans Health System, Gainesville, FL; **Rajesh Mohandas**, Univ of Florida, Gainesville, FL
- P501 **Editing of Myosin Phosphatase Gene as a Novel Approach for Vasodilator Sensitization and Lowering of Blood Pressure**
Mariam Meddeb, Jeanine Ursitti, John Reho, **Steven A Fisher**, Univ of Maryland Baltimore, Baltimore, MD
- P502 **Vascular Tissue Proteomics Enables Detection of Cell Type-specific Changes in Target Expression**
Ruth M Mackenzie, Karine Pinel, Emma J Carrick, Katrin Nather, Holger Husi, Delyth Graham, William Mullen, Stuart A Nicklin, **Christian Delles**, Univ of Glasgow, Glasgow, United Kingdom
- P503 **Role of TRPV4 and Endothelial BK Channels in Endothelial-dependent Dilation Following Chronic Hypoxia**
Jay S Naik, Benjimen R Walker, Univ New Mexico Sch of Med, Albuquerque, NM
- P504 **Resistin Mediates Sex-dependent Effects of Perivascular Adipose Tissue on Vascular Function in the SHRSP**
Sarah McNeilly, Heather Y Small, Adam Sheikh, Sheon Mary, Karine Pinel, **Christian Delles**, Univ of Glasgow, Glasgow, United Kingdom

- P505 Longitudinal Associations Among Flow-mediated Vasodilatation, Preclinical Vascular/renal Damage and Serum Cholesterol Levels in Treated Hypertension**
Hirofumi Tomiyama, Akira Yamashina, FMDJ Study Group, Tokyo Medical Univ, Tokyo, Japan
- P506 Deoxycorticosterone Acetate-salt Promotes Endothelial-mesenchymal Transition in Human Glomerular Endothelial Cells**
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- P507 Atherosclerosis Progression in Chronic Kidney Disease**
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- P508 Inhibition of Big-conductance Calcium-activated Potassium Channels in Vascular Myocytes is a Key Novel Mechanism for Tacrolimus-induced Hypertension**
Yun-Min Zheng, Yong-Xiao Wang, Albany Medical Coll, Albany, NY
- P509 Identification of Radial Vascular Wall Abnormalities by Very-high Frequency Ultrasound in Patients With Fibromuscular Dysplasia: The Fuchsia Study**
Rosa Maria Bruno, Univ of Pisa, Pisa, Italy; Nicole Di Lascio, Inst of Clinical Physiology - CNR, Pisa, Italy; Daniela Guarino, Saverio Vitali, Piercarlo Rossi, Davide Caramella, Stefano Taddei, Lorenzo Ghiadoni, Univ of Pisa, Pisa, Italy; Francesco Faita, Inst of Clinical Physiology - CNR, Pisa, Italy
- P510 Nox4 Deficiency Leads to Hypertension and Vascular Damage With Enhanced Effects in Ang II-dependent Hypertension**
Silvia Lacchini, ICB - Univ of Sao Paulo, Sao Paulo, Brazil; Augusto C Montezano, Rheure A Lopes, Adam P Harvey, Francisco J Rios, ICAMS-Univ of Glasgow, Glasgow, United Kingdom; Katrin Schroder, Ralf P Brandes, Goethe - Univ Frankfurt, Frankfurt, Germany; Rhian M Touyz, ICAMS-Univ of Glasgow, Glasgow, United Kingdom
- P511 Targeting IL-1 β Protects From Aortic Aneurysms Induced by Disrupted Tg β Signaling in Smooth Muscle Cells**
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- P512 Association of Aortic Arch Width Assessed by Computed Tomography With Cardiac Structure and Function**
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- P513 Seasonal Fluctuations of Novel Arterial Stiffness Indexes in Hypertensive Patients**
Toshihiro Kita, Kazuo Kitamura, Univ of Miyazaki, Miyazaki, Japan
- P514 Age-related Differences in the Annual Changes of the Ankle-brachial Pressure Index: Underlying Mechanisms**
Shogen Fujii, Kazuki Shiina, Taishiro Chikamori, Akira Yamashina, Chisa Matsumoto, Shunsuke Komatsu, Hirofumi Tomiyama, Tokyo Medical Univ, Tokyo, Japan
- P515 Vascular Stiffness is Not Changed by Dipeptidyl Peptidase 4 Inhibitor**
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- P516 Arterial Stiffness is a Mediator of Uric Acid-related Development of Hypertension**
Hirofumi Tomiyama, Kazuki Shiina, Chisa Matsumoto, Taishiro Chikamori, Akira Yamashina, Shogen Fujii, Tokyo Medical Univ, Tokyo, Japan
- P517 Dialysis Vintage Longer Than Sixty Months Contributes to Increased Arterial Stiffness and Impaired Diastolic Function in Patients with End-stage Renal Disease**
Valentin Calvez, Marco Palladino, Giulio Montefusco, Vincenzo Cesario, Claudia Fofi, Giuseppino M Ciavarella, Massimo Volpe, Carmine Savoia, Sapienza Univ Rome, Rome, Italy
- P518 Abnormal Pressure Wave Reflection Accelerates the Development of Hypertension via the Increase of Arterial Stiffness**
Hirofumi Tomiyama, Chisa Matsumoto, Kazuki Shiina, Taishiro Chikamori, Akira Yamashina, Shogen Fujii, Tokyo Medical Univ, Tokyo, Japan

- P519 Arterial Stiffness is Associated With Lower Performance on the Cognitive Tests at Different Domains in Hypertensive Patients**
Henrique Muela, Valeria Costa-Hong, Michel F Machado, Natalia C Moraes, Claudia M Memória, Monica S Yassuda, Edson B Shu, Ayrton R Massaro, Ricardo Nitrini, Alfredo Mansur, **Luiz Bortolotto**, Heart Inst (InCor) of HCFMUSP, São Paulo, Brazil
- P520 Low Plasma Levels of Vitamin D are Not Associated With Carotid Artery Stiffness in Hypertension**
Cristiana Catena, Gianluca Colussi, Gabriele Brosolo, Nicole Bertin, Marileda Novello, Alessandro Frangipane, Andrea Duratti, Leonardo A Sechi, Internal Med, Udine, Italy
- P521 Relationship Between Carotid Arterial Elastic Properties and Central Aortic Hemodynamics in Patients with Stroke**
Sung-ai Kim, Sang-Ho Jo, Kyung-Ha Park, Hyun-Sook Kim, Hallym Sacred Heart Hosp, An-yang, Korea, Republic of
- P522 Endothelial Cell-specific Knockout of Epithelial Sodium Channel Prevents Aortic Stiffness, Cardiac Stiffness and Diastolic Dysfunction in Response to a Western Diet in Female Mice**
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- P523 Time and Concentration Dependent Vascular Changes of Cancer Therapy Everolimus in Mesenteric Resistance Arteries**
Patricia Martinez Quinones, Alexander Warner, Nicole Klee, Camilla F Wenceslau, Cameron G McCarthy, Clinton Webb, Medical Coll of Georgia at Augusta Univ, Augusta, GA
- P524 Vasoprotective Effect of Hesperidin in the Onset of Arterial Hypertension Induced by L-NAME**
Fernanda Priviero, Augusta Univ, Augusta, GA; Tiago Tomazini Goncalves, Carolina Martins Lazaro, Jackeline Mezencio, Natiele Araujo, Mario A Claudino, Patricia Carvalho, Univ Sao Francisco, Braganca Paulista, Brazil; R Clinton Webb, Augusta Univ, Augusta, GA
- P525 Mtor Inhibitor Everolimus Decreases Aortic Sensitivity To Phenylephrine In Normotensive Rats**
Alex Warner, Patricia Martinez Quinones, Camilla Wencesalu, Cameron McCarthy, Clinton Webb, Medical Coll of Georgia at Augusta Univ, Augusta, GA
- P526 MMP-2 Activation By S-glutathiolation Decreases Calponin-1 During Vascular Remodeling In Hypertension**
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- P527 Angiotensin-(1-7) Attenuates Doxorubicin-Induced Aortic Dysfunction in Male and Female Rats by Distinct Mechanisms**
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- P528 Modifiable Factors Affecting BP in Identical Twins**
Srividya Kidambi, Xiaoqing Pan, Yingchuan Li, Pengyuan Liu, Michelle Li, Theodore Kotchen, Allen Cowley, Mawusi Kamassah, Yong Liu, Medical Coll of Wisconsin, Brookfield, WI; S A Burt, Kelly Klump, Supratik Rayamajhi, Michigan State Univ, East Lansing, MI; Cheryl Rockwell, Eric Gernaat, Michigan State Univ, East Lansing, MI; Mary Donohue, Rakesh Reddy, Michigan State Univ, East Lansing, MI; Ralph Watson, Michigan State University, East Lansing, MI; David Mattson, Mingyu Liang, Medical Coll of Wisconsin, Brookfield, WI
- P529 Renal**
Prasad Konkalmatt, Fei Han, Gaosi Xu, Xiaoxu Zheng, George Washington Univ, Washington, DC; John J Gildea, Robin A Felder, Univ of Virginia, Charlottesville, VA; Pedro A Jose, **Ines Armando**, George Washington Univ, Washington, DC
- P530 Pleiotropic Effects on Blood Pressure Traits Using Genome-wide Analysis of Gene-alcohol Interactions**
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P531 FOXO3, a Cardiovascular Protector, is at the Hub of a 46-gene Cell Resilience "Gene Factory" on Human Chromosome 6

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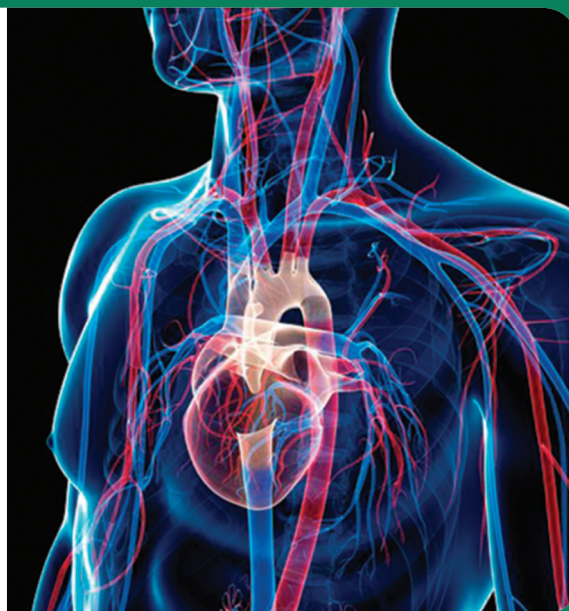
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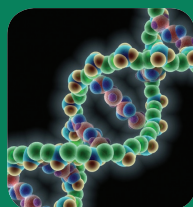
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