



Hypertension

Final Program

Thursday, September 7, 2023

7:30 – 9:00 AM

Session 1

Grand Ballroom

Opening Remarks and Keynote Lecture

Presidential Remarks and Welcome

7:30 Keith Churchwell, MD, FAHA, President Elect, American Heart Association

7:45 R. Ariel Gomez, MD, FAHA, Chair, Council on Hypertension

7:55 Jane Reckelhoff, PhD, FAHA, Chair, Hypertension Program Committee

8:00 **Opening Keynote Lecture:**

Defective Hoxb8 Microglia Are Causative for Both Chronic Anxiety and Pathological Overgrooming (OCS-like behavior) in Mice

Mario R. Capecchi, PhD

9:00 – 10:00 AM

Session 2

Grand Ballroom

The RESTORE Network: A Health Equity Research Network to Prevent Hypertension

Moderator: Gbenga Ogedegbe, MD, MPH

9:00 **The RESTORE Network: A Health Equity Research Network to Prevent Hypertension**
Gbenga Ogedegbe, MD, MPH

9:05 **The Hybrid Effectiveness-Implementation Trials of the RESTORE Network**
Oluwabunmi V Ogungbe, MPH

9:20 **Moderated Panel discussion**

Moderator: Chidinma Ibe, PhD

Panelists:

Eduardo Sanchez, MD, MPH, FAHA

Fleetwood Loustalot, PhD, FNP, FAHA

Jaime Murillo, MD, FASE, FACC

10:00 - 10:30 AM

Coffee Break

10:30 AM – 12:00 PM

Session 3

Grand Ballroom

SglT2 Inhibitors: The Kidney and Beyond

Moderators: Alicia McDonough and Heddwen Brooks, PhD

10:30 **Basic Mechanisms of SGLT2 Inhibitors**

Volker Vallon, MD, FASN, FAPS

10:55 **Role and Mechanisms of SGLT2 Inhibition in Salt Sensitive Hypertension**

Alexander Staruschenko, PhD, FAHA

11:20 **Overview of Preserved and Reduced EF Cardiovascular Trials**

Eileen O'Meara, MD, FRCPC

11:40 **Discussion/Q&A**

12:00 – 1:30 PM

Lunch on your own

12:00 – 1:30 PM

Session 4

Constitution Ballroom A

Meet the Nobel Networking Event

Mario R. Capecchi, PhD

(Boxed lunches available. Limited attendance- first come, first served)

1:30 – 3:00 PM

Session 5

Grand Ballroom

Artificial Intelligence

Moderators: Rhian M Touyz MBBCh, PhD, FRCP, FRSE, FMedSci and Bina Joe, PhD, FAHA, FAPS, ISHF

1:30 **Artificial Intelligence and Hypertension**

Sandosh Padmanabhan, MD, PhD, FAHA

1:55 **AI and Hypertension Guidelines: The Good and The Bad**

Joseph Kassab, MD, MS

2:20 **Artificial Intelligence in Hypertension Management from the US perspective**

Harlan Krumholz, MD, SM

2:45 **Panel Discussion**

3:00 – 3:30 PM

Coffee Break

3:30 – 5:30 PM

Oral Abstract Sessions

Concurrent 6 A

Grand Ballroom

Junior Faculty Showcase

Moderators: Silvana Cooper, BS and Augusto Montezano PhD, FAHA

1

3:30 **Hypertensive Disorders Of Pregnancy And Postpartum Readmission**

Alina Tvina, Medical Coll of Wisconsin, Milwaukee, WI; Alexandra Ahrens, Anna Palatnik, Medical Coll of Wisconsin, Wauwatosa, WI

2

3:45 **PO2-guided Adrenal Vein Sampling In Primary Aldosteronism**

Kei Omata, Tohoku Univ, Sendai, Japan; Yuta Tezuka, Sendai, Japan; Yoshikiyo Ono, TOHOKU

UNIVERSITY HOSPITAL, Sendai, Japan; Fumitoshi Satoh, Tohoku Univ. Graduate Sch of Med, Sendai, Japan

3

- 4:00 **Aberrant Host Immune Responses Specific To Microbial-derived Ligands Are Linked To Hypertension In BPH/2J Mice**
Piu Saha, Beng San Yeoh, Univ of Toledo, Toledo, OH; Mrunmayee Kandalgaonkar, The Univ of Toledo, Toledo, OH; Bina Joe, Univ of Toledo HSC, Toledo, OH; Matam Vijay-Kumar, Univ of Toledo, Toledo, OH
- 4
 4:15 **Process And Health Outcomes Of Patients With Severe Hypertension In A Real-world Setting: Findings From A 12-year Study In A Large Health System**
Yuan Lu, Yale Univ, New Haven, CT; John E Brush Jr., SENTRA HEALTHCARE, Norfolk, VA; Yuntian Liu, Yale Sch of Med, New Haven, CT; Jordan Asher, Sentara Health, Norfolk, VA; Mitsuaki Sawano, Yale YNHH CORE, New Haven, CT; Patrick Young, Yale Univ, New Haven, CT; Wade Schulz, Yale Sch of Med, New Haven, CT; Mark Anderson, Sentara, Virginia Beach, VA; John Burrows, Sentara, Virginia Beach, VA, Virginia Beach, VA; Harlan M Krumholz, Yale Univ, New Haven, CT
- 5
 4:30 **Renal Macrophages From Losartan Treated Mice Transfer The Hypertension**
Patricio A Araos, Sut'yam Cortés, Inst of Biomedical Sciences, Univ Autónoma de Chile, Santiago, Chile; Rafael Campos, Inst of Biomedical Sciences, Univ Autónoma de Chile, Santaigo, Chile; Javier Reyes, Faculty of Med and Science, Univ San Sebastián, Santiago, Chile; Stefanny Figueroa, Inst of Biomedical Sciences, Univ Autónoma de Chile. Faculty of Med and Science, Univ San Sebastián, Santiago, Chile; Eduardo Guzman, Faculty of Med and Science, Univ San Sebastián, Santiago, Chile; María José Fuenzalida, Rodrigo Pacheco, Fundación Ciencia & Vida, Santiago, Chile; Cristián A Amador, Faculty of Med and Science, Univ San Sebastián, Santiago, Chile
- 6
 4:45 **Age And Sex Differentially Regulate Epigenetic Mechanisms In The Heart** **Prerna Kumar**, Heddwen L Brooks, Dept of Physiology, Tulane Univ Health Sciences Ctr and Sch of Med, New Orleans, LA
- 7
 5:00 **Coronary Microvascular Function In Severe Preeclampsia**
Michael C. Honigberg, Massachusetts General Hosp, Boston, MA; Katherine E. Economy, Brigham and Women's Hosp, Boston, MA; Maria Pabon, Brigham and Women's Hosp, Boston, MA, Boston, MA; Xiaowen Wang, Brigham and Women's Hosp, Boston, MA; Claire Castro, MGH- Cardiovascular Res Ctr, Boston, MA; Jenifer M Brown, Sanjay Divakaran, Brigham and Women's Hosp, Boston, MA; Leanne Barrett, BRIGHAM AND WOMENS HOSPITAL, Boston, MA; Anna Perillo, BRIGHAM AND WOMENS HOSPITAL, Boston, MA, Brookline, MA; Wesley X. Xiong, Anina Y. Sun, Brigham and Women's Hosp, Boston, MA; Tajmara Antoine, Massachusetts General Hosp, Boston, MA; Faranak Farrohi, Brenda Docktor, Brigham and Women's Hosp, Boston, MA; Brittany N Weber, BRIGHAM AND WOMENS HOSPITAL, Boston, MA; Emily Lau, Massachusetts General Hosp, Jamaica Plain, MA; Amy Sarma, MASSACHUSETTS GENERAL HOSPITAL, Cambridge, MA; Pradeep Natarajan, Massachusetts General Hosp, Brookline, MA; Robert M Weisbrod, Boston Univ, Boston, MA; Naomi M Hamburg, BOSTON UNIVERSITY SCHOOL OFMEDICINE, Boston, MA; Jason D Roh, MASSACHUSETTS GENERAL HOSPITAL, Boston, MA; Jennifer E Ho, Harvard Medical Sch, Newton, MA; Malissa Wood, Harvard Medical Sch, Newton, MA, Marblehead, MA; Nandita Scott, Massachusetts General Hosp, Boston, MA; MARCELO DI CARLI, BRIGHAM AND WOMEN'S HOSPITAL, BOSTON, MA
- 8
 5:15 **Sex-dependency Of T Cell-induced Salt-sensitive Hypertension And Kidney Damage**
Justine M Abais-Battad, John H Dasinger, Emily C Burns, Augusta Univ, Augusta, GA; Samuel D Walton, Medical Coll of GA -Augusta Univ, Grovetown, GA; Mary Cherian-Shaw, Augusta Univ, Augusta, GA; David L Mattson, Medical Coll Of Georgia, Augusta, GA

Concurrent 6B

Constitution Ballroom A

Restraining Oxidative Stress and Inflammation in the Escalation of Blood Pressure

Moderators:

Thiago Bruder, PhD and Nathaniel Bloodworth, MD, PhD

- 3:30 **Age-related Clonal Hematopoiesis Predisposes To Hypertension In Mice Through An Inflammasome Mechanism**
Ariel Polizio, Univ of Virginia, Charlottesville, VA; Kyung-Duk Min, Hyogo Medical Univ, Nishinomiya, Japan; Yoshimitsu Yura, Lucila Marino, Univ of Virginia, Charlottesville, VA; Luca Rolauer, Heinrich-Heine-Univ Düsseldorf, Düsseldorf, Germany; Emiri Miura-Yura, Megan A Evans, Univ of Virginia, Charlottesville, VA; Eunbee Park, Charlottesville, VA; Miranda Good, Tufts Univ, Boston, MA; Abigail Wolpe, Univ of Virginia, Charlottesville, VA; Maria Grandoch, Brant Isakson, Univ of Virginia, Charlottesville, VA, Duesseldorf; Kenneth Walsh, Univ of Virginia, Charlottesville, VA
- 10
- 3:45 **Interplay Between Nox5 And Endoplasmic Reticulum Stress Influences Vascular Smooth Muscle Cell Phenotypic Switching In Human Hypertension**
Livia L Camargo, McGill Univ Health Ctr, Montreal, QC, Canada; Augusto C Montezano, McGill Univ Health Ctr, Montreal, QC, Canada; YU WANG, Univ of Glasgow, Glasgow; Francisco J Rios, UNIVERSITY OF GLASGOW, Glasgow; Rhian M Touyz, McGill Univ, Montreal, QC, Canada
- 11
- 4:00 **Cluster Of Differentiation 14 (CD14) Inhibits NADPH Oxidase 2 (NOX2)-Derived Oxidative Stress In Hematopoietic Cells And Modulates Dahl Salt-Sensitive Hypertension And Renal Damage**
Emily C Burns, John H Dasinger, Mary Shaw, Augusta Univ, Augusta, GA; Samuel D Walton, Medical Coll of GA -Augusta Univ, Grovetown, GA; Justine M Abais-Battad, Augusta Univ, Augusta, GA; David L Mattson, Medical Coll Of Georgia, Augusta, GA
- 12
- 4:15 **Diagnosis Of Salt Sensitivity Of Blood Pressure Using Circulating Monocyte Isolevuglandin-CXCL/CCL Signaling In Response To Elevated Sodium In Vitro**
Sydney Jamison, Meharry Medical Coll, Sch of Graduate Studies, Nashville, TN; Ashley Pitzer, Annet Kirabo, Vanderbilt Univ Medical Cente, Nashville, TN
- 13
- 4:30 **Hippocampal Neuroinflammation Occurs After Focal Cerebral Ischemic Stroke That May Contribute To Post-Stroke Memory Loss**
Nick W Krant, Univ of Vermont, Burlington, VT; Sarah Tremble, Univ of Vermont, Burlington, VT; Abbie C Johnson, UNIVERSITY OF VERMONT, Burlington, VT
- 14
- 4:45 **Loss Of Resident Innate Immune Cells Prevents Salt-Induced Increases In Renal CD8+T Cells**
Craig Cowley, James Marvin, Anna Beaudin, **Brandi M Wynne**, Univ of Utah, Salt Lake Cty, UT
- 15
- 5:00 **Pgi2 Analogs Reduce Inflammation And Promote Treg Function In Hypertensive Diseases**
Allison E Norlander, Indiana Univ, Indianapolis, IN; Masako Abney, Nashville, TN; Anna R Hemnes, VANDERBILT UNIVERSITY, Nashville, TN; R. Stokes Peebles, Vanderbilt Univ Medical Cente, Nashville, TN
- 16
- 5:15 **GRN Gene Mutation Leads To Vascular Abnormalities Via Mitochondrial Dysfunction And Oxidative Stress**
Shubhnita Singh, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Ariane Bruder do Nascimento, Pittsburgh, PA; Rafael Menezes Costa, Sivakama S Bharathi, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Eric Goetzman, Pittsburgh, PA; Thiago Bruder, Univ of Pittsburgh, Pittsburgh, PA

Concurrent 6C

Constitution Ballroom B

Sex Differences and Hypertension-Associated Complications of Pregnancy

Moderators:

Emily Waigi, MS and Carmen De Miguel, PhD, MS, FAHA

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3:30 **Differential Regulation Of Piezo1 And Major Histocompatibility Complex I And II In Male And Female Renal Endothelial Cells During Ang II-mediated Hypertension**

Alex Colvert, Medical Univ of South Carolina, Charleston, SC; Marice McCrorey, Medical Univ of South Carolina, Charlotte, NC; Kennedy Hawkins, Medical Univ of South Carolina, Charlotte, NC, Lexington, SC;

Heddwen L Brooks, Tulane Univ, New Orleans, LA; Kristine Y Deleon-Pennell, Medical Univ South Carolina, Charleston, SC; **Justin P Van Beusecum**, Medical Univ of South Carolina, Charleston, SC

18
3:45 **Overexpression Of ER α In Adipose Tissue Contributes To The Anti-contractile Effect Of Mesenteric PVAT By NOX4-induced H₂O₂**

Tiago J Costa, South Carolina Sch of Med, Columbia, SC; Milene T Fontes, Univ of South Carolina, Columbia, SC; R Clinton Webb, UNIVERSITY OF SOUTH CAROLINA, Columbia, SC; Camilla F Wenceslau, Univ Of South Carolina, Columbia, SC; Reilly T Enos, South Carolina Sch of Med, Columbia, SC; Cam McCarthy, Univ of South Carolina, Columbia, SC

19
4:00 **Perimenopause Exacerbates Hypertension In Doca-salt Rats**

Nayara Pestana-Oliveira, Mariana Ruiz Lauar, Rawan Almutlaq, Arthur Trenton de la Cruz-Lynch, Jaryd Ross, Univ of Minnesota, Minneapolis, MN; Dusty A Van Helden, UNIVERSITY OF MINNESOTA - IBP, Minneapolis, MN; Alex Dayton, Louise C Evans, Univ of Minnesota, Minneapolis, MN; Manda L Keller-Ross, UNIVERSITY OF MINNESOTA, Minneapolis, MN; John W Osborn, Univ of Minnesota, Minneapolis, MN

20
4:15 **Impact Of Sex Hormones On Renal Mitochondria Function In Sprague Dawley Rats**

Ryan Schibalski, Denisha Spires, Adam Jones, Alena Cherezova, Daria Ilatovskaya, Augusta Univ, Augusta, GA

21
4:30 **Betamethasone Prevents Preeclamptic Phenotypes By Upregulating Regulator Of G Protein Signaling 2**
Brandon M Schickling, Chris Clark, Serena Gumusoglu, Donna A Santillan, Mark K Santillan, Univ of Iowa, Iowa City, IA

22
4:45 **II-33 Supplementation Improves Vascular Function And Maternal Hypertension In Response To Placental Ischemia**

Xi Wang, Corbin Shields, Geilda Tardo, Gregory Peacock, Jan M Williams, Denise C Cornelius, Univ of Mississippi Medical Ctr, Jackson, MS

23
5:00 **Prior Sflt1 Induced Preeclampsia Exacerbates Post-partum Hypertension-mediated Aortic Stiffness And Hypercholesterolemia-induced Atherosclerotic Inflammation**

Lauren Biber, Tufts Medical Ctr, Boston, MA; Joshua Man, Boston, MA; Jaime F Ibarrola Ulzurrun, Tufts Medical Ctr-MCRI, Boston, MA; Nicholas Camarda, Tufts Medical Ctr, Boston, MA; Brigett Carvajal, Tufts Medical Ctr, Boston, MA, Princeton, NJ; Zsuzsanna K Zsengeller, BIDMC - Harvard Medical Sch, Boston, MA; Ananth A Karumanchi, Cedars-Sinai Medical Ctr, W Hollywood, CA; Iris Z Jaffe, TUFTS MEDICAL CENTER, Boston, MA

24
5:15 **Early Gestation Estrogen Supplementation In The Preeclamptic-like BPH/5 Mouse Model: Effects On Uteroplacental Expression Of Sex Steroid Hormone Receptors**

Viviane C Gomes, Michigan State Univ, East Lansing, MI; Ashley K Woods, Cornell Univ Coll of Veterinary, Ithaca, NY; Bryce M Gilbert, Michigan State Univ, East Lansing, MI; Kassandra R. Crissman, Louisiana State Univ Sch of Veterinary Med, Baton Rouge, LA; Camille A Landry, Louisiana State Univ Sch of Veterinary Med, Mandeville, LA; Jennifer L Sones, Louisiana State Univ Sch of Veterinary Med, Baton Rouge, LA

Session 6D

Primary Care

6.D.1

3:30- 4:30 PM

Managing Hypertension at the Population Level

Independence Ballroom

Moderators: Stephen P Juraschek, MD, PhD, FAHA and Valy Fontil, MD

3:30 Population Hypertension Control: How are Primary Care Clinics Doing?

Karen Margolis, MD, MPH

- 3:40 How to measure BP accurately for HTN diagnosis and response to treatment (machines, clinic procedures), metrics**
John M. Flack MD, MPH, FASH, MACP, FAHA, CHS
- 3:50 Interventions for Inertia and Practice Facilitation**
Brent M Egan, MD, FAHA
- 4:00 PCORNET BP Control Laboratory: Infrastructure Supports for Clinics to Collaborate on Monitoring Real-World Performance Data and Deploy Interventions**
Rhonda Cooper-DeHoff, Pharm D, MS, FAHA
- 4:10 Panel Discussion and Q&A**

6.D.2

4:30- 5:30 PM

Reducing Disparities in Hypertension in the Real World Independence Ballroom

Moderators: Elaine C Khoong, MD MS and Keith C. Ferdinand, MD, FAHA

- 4:30 Multilevel Causes of Inequity in Hypertension Management**
Yvonne Commodore-Mensah, PhD, MHS, RN, FAHA
- 4:40 Hypertension Management in Trusted Spaces**
C. Adair Blyler, PharmD, CHC
- 4:50 Implementation strategies in Federally Qualified Health Centers**
Hilary Wall, MPH
- 5:00 Community Health Workers and Team-Based Care to Achieve Equity**
Antoinette Schoenthaler, EdD
- 5:10 Panel Discussion and Q&A**

Poster Session 1

5:30 – 7:00 PM

Back Bay Ballroom

Trainee Advocacy Committee Poster Session Reception and Competition

Please see the online Poster Session PDF for a full list of posters

Friday, September 8, 2023

7:15-7:45 AM

Independence Ballroom

Learning Studio Sponsored by Medtronic

This event is not part of the official Hypertension 2023 programming as planned by the AHA Committee on Hypertension Program.

Hot Topics in Establishing Hypertension Excellence

Moderator: Naomi Fisher, M.D.

Speakers:

Tiffany Randolph, MD, Raven Voora, MD, and Anna Krawisz, MD

Objectives: To create awareness on hypertension programs – what is needed, steps take to establish a program, timelines, stakeholder alignment, multi-disciplinary teams – sharing key learnings along the way. To learn more about the details of establishing a successful hypertension program and how it works with the referring community / partners, and overall program metrics.

Food & Beverage provided by AHA.

7:00 – 8:00 AM

American Heart Association Research: Grant Funding and Other Opportunities

Constitution A

Glenn H. Dillon, PhD

Session 7

8:00- 9:00 AM

TRP Channels

Grand Ballroom

Moderators: Ade Adebisi, PhD and Daria Ilatovskaya, MS, PhD, FAHA

8:00 **Blood Pressure Control by Vascular TRP Polycystin Channels**

Jonathan H. Jaggar, PhD

8:20 **TRP Channels in Vascular Mechanotransduction**

Scott Earley, PhD

8:40 **TRPM7 and Associated Hypomagnesemia as Regulators of the Cardiovascular Effects in Hyperaldosteronism**

Francisco Rios, PhD

Session 8

9:00 – 10:00 AM

Orphan and Novel Receptors

Grand Ballroom

Moderators: Dominik N. Mueller, PhD and Sarah Lindsey, PhD, FAHA

9:00 **The Role of a Novel Olfactory Receptor, Olfr558, in Blood Pressure Regulation**

Jennifer Pluznick, PhD

9:25 **Gut-to-Host Communication: G-protein Coupled Receptors and Blood Pressure Regulation**

Francine Marques, PhD

9:50 **Abstract 25: Role Of The C-C Motif Chemokine Ligand 5 (CCL5) And Its Receptor, C-C Motif Chemokine Receptor 5 (CCR5) In The Genesis Of Aldosterone-induced Hypertension, Vascular Dysfunction, And End-organ Damage**

Rafael Costa, PhD, Juliano Alves, Débora Santos, Wanessa Awata, Shubhnita Singh, Ariane Bruder-Nascimento, Jacqueline Ho, Thiago Bruder, Univ of Pittsburgh, Pittsburgh, PA

10:00 – 10:30 AM

Coffee Break

10:30 – 12:00 PM

Poster Session 2

Back Bay Ballroom

Please see the online Poster Session PDF for a full list of posters

Session 9D

10:30 – 12:00 PM

Clinical Practice/Clinical Science (CPCS)

Cuffless Blood Pressure Devices- Are They ready for Prime Time?

Independence Ballroom

Moderators: Eugene Yang, MD, MS and Jordana Cohen, MD, MSCE

10:30 **Cuffless Blood Pressure Devices - Are We There Yet?**
Alta Schutte, PhD, FESC, FRSSAf, ISHF

10:50 **Emerging Technologies for BP Measurement**
Tammy M. Brady, MD, PhD

11:10 **Debate:**
Cuffless Devices are Ready for Prime Time (Pro)
Daichi Shimbo, MD

11:25 **Cuffless Devices are NOT Ready for Prime Time (Con)**
Ian Kronish, MD, MPH, FAHA

11:40 **Discussion**

12:00 – 1:30 PM
Lunch on Your Own

12:00- 1:30 PM
Hypertension Center Consortium Luncheon
Republic Ballroom B
By invitation only

12:00 – 1:30 PM
Trainee Advocacy Committee CHAMP Lunch
Constitution Ballroom A
Pre-registration was required to attend this session

Session 10
1:30 – 3:00 PM
Primary Aldosteronism
Grand Ballroom
Moderators: Anand Vaidya, MD and Lisa Dubrofsky MDCM, FRCPC

1:30 **Case Presentation**
Anand Vaidya, MD

1:35 **Clinical Recognition of Primary Aldosteronism**
Adina Turcu, MD, MS

1:57 **Genetic Underpinning of Primary Aldosteronism**
Maria-Christina Zennaro, MD, PhD

2:19 **Role of Novel Imaging and Therapy in Primary Aldosteronism**
Morris J Brown, MD, FRCP, FMedSci

2:41 **Discussion/Q&A**

3:00 – 3:30 PM
Coffee Break

3:00 – 3:30 PM
Membership Bingo
Gardner (3rd floor)
Open to all non-members and any member who brings a non-member
See the membership booth for more information

Session 11

3:30 4:30

The Arthur C. Corcoran Memorial Lecture and The Lewis K Dahl Memorial Lecture Grand Ballroom

3:30 **The Arthur C. Corcoran Memorial Lecture**
Insights into the Mechanisms of Obesity-Associated Hypertension.
Kamal Rahmouni, PhD, FAHA

4:00 **The Lewis K. Dahl Memorial Lecture**
ACE2 Ubiquitination as a Target for Salt-Sensitive Hypertension
Eric D. Lazartigues, PhD, FAHA

4:30 - 5:30

Oral Abstract Sessions

Concurrent 11A

Vascular Progenitors with Rising Star Lecture

Grand Ballroom

Moderators: Georgina Gyarmati MD MPH and Lucas Almeida, PhD

4:30 **Rising Star Lecture: The Transcription Factor TCF21 Protects Stromal Cell Precursors during Kidney Development [DW1]**
Gal Finer, MD, PhD

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5:00 **Three-dimensional Visualization And Evaluation Of Differences In Renin Expression In Kidneys Exposed In Vivo To Either Low Or High Arterial Pressure**
Manako Yamaguchi, Univ of Virginia, Charlottesville, VA; Hiroki Yamaguchi, Charlottesville, VA; Silvia Medrano, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Kazuki Tainaka, Niigata Univ, Niigata, Japan; Maria Luisa S Sequeira Lopez, UNIVERSITY VIRGINIA, Charlottesville, VA; Ariel R Gomez, Univ of Virginia, Charlottesville, VA

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5:15 **Chronic Unpredictable Stress Affects Mitochondrial Function In The Hypothalamic-Pituitary-Adrenal Axis And Impairs Vascular Reactivity In Male And Female Mice**
Rinaldo R. dos Passos Junior, Fernanda Priviero, Raiana dos Anjos Moraes, Univ of South Carolina, Columbia, SC; Olufunke Arishe, Stephanie Wilczynski, Ashley Snyder, Alexia Crockett, Noelle Frambres, Kyle Stegmann, Amelia Churillo, Univ of South Carolina, Columbia, SC; Susan K Wood, UNIV SOUTH CAROLINA SCHOOL MEDICINE, Columbia, SC; Francis G Spinale, USC SCHOOL MEDICINE, Columbia, SC; Michael J Ryan, Univ of South Carolina, Columbia, SC; Fiona Hollis, UofSC Sch of Med, Lexington, SC; R Clinton Clinton Webb, UNIVERSITY OF SOUTH CAROLINA, Columbia, SC

Concurrent 11B

Developmental Mechanisms of Hypertension

Constitution Ballroom A

Moderators: Barbara T. Alexander, PhD, FAHA and Noha M. Shawky, PhD

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4:30 **Sex Differences In Hypertension And Cerebral Oxidative Stress Of Preeclamptic Rat Offspring**
Jonna B Smith, Savanna Smith, Univ of North Texas HSC, Fort Worth, TX; Kylie Jones, UNT Health Science Ctr, Fort Worth, TX; Angie Castillo, UNT Health Science Ctr, Eddy, TX; Mark W Cunningham Jr., Univ. N Texas Health Science Cen., Fort Worth, TX

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4:45 **Hypertensive Disorder Of Pregnancy Results In Loss Of Pancreatic Beta Cell Area In Female Rat Offspring Without Development Of Glucose Intolerance**

Jean F Regal, Kate M Root, Melissa A Cedars, Univ of Minnesota Medical Sch, Duluth, MN; Emilyn Alejandro, Univ of Minnesota Medical Sch, Minneapolis, MN

30

5:00 **Perinatal Paradigms Of Opioid Use To Investigate Cardiovascular Disease (CVD) Risk In Adult Offspring**
Nermin Ahmed, Carolina Dalmasso, Analia S Loria, UNIVERSITY OF KENTUCKY, Lexington, KY

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5:15 **Adverse Childhood Experiences And Cardiovascular Disease Risk In Childhood: A Pilot Study**
Anastasia Wass, Jeffrey Garofano, Carisa Parrish, Johns Hopkins Univ, Baltimore, MD; Tammy M Brady, JOHN HOPKINS UNIVERSITY, Baltimore, MD

Concurrent 11C

Immunity and Blood Pressure

Constitution Ballroom B

Moderators: Shobana Navaneethalakrishnan, PhD and David L Mattson, PhD, FAHA

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4:30 **Downregulation Of Trpm7 Is Associated With Inflammation And Fibrosis In Aldosterone-induced Hypertension**
Francisco J Rios, Res Inst of the McGill Univ Health Ctr (RI-MUHC), Montreal, QC, Canada; Livia L Camargo, McGill Univ Health Ctr, Montreal, QC, Canada; Karla B Neves, Univ of Strathclyde, Glasgow; Rheure Alves-Lopes, Univ of Glasgow, Glasgow; Augusto C Montezano, Mcgill Univ Health Ctr, Montreal, QC, Canada; Rhian M Touyz, McGill Univ, Montreal, QC, Canada

33

4:45 **Innate Lymphoid Cells Mediate Hypertension In T Cell Deficient Hosts**
Wei Chen, Vanderbilt Medical Ctr, Nashville, TN; Liang Xiao, Zhejiang Univ Sch of Med, Hangzhou, China; Marwa Mohammed, David Patrick, Duncan Smart, Ao Mingfang, Vanderbilt Medical Ctr, Nashville, TN; Sara Perrotta, Sapienza Univ Rome - Neuromed, Pozzilli, Italy; Lorenzo Carnevale, I.R.C.C.S. Neuromed, Pozzilli, Italy; Fabio Pallante, Sapienza Univ of Rome, Rome, Italy; Giuseppi Lembo, Daniela Carnivale, Sapienza Univ of Rome, Pozzilli, Italy; David Harrison, Vanderbilt Medical Ctr, Nashville, TN

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5:00 **ROCK2 Specific Inhibition Decreases Th17/Treg Balance And Reduces DOCA-salt Hypertension-associated End-Organ Damage**
Daniel J Fehrenbach, VUMC, Nashville, TN; Charles D Smart, Nashville, TN; Jean W Wassenaar, Vanderbilt Univ Medical Cente, Nashville, TN; Meena S Madhur, VANDERBILT UNIVERSITY, Nashville, TN

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5:15 **Early Depletion Of Activated Neutrophils Ameliorates Ang II-induced Hypertension In Gstm1 Deficient Mice**
Luojing Chen, university of Rochester, Rochester, NY; Timothy Beane, Yves Wang, Univ of Rochester, Rochester, NY; ahmed alnuaimi, u of r, rochester, NY; Jing Liu, Univ of Rochester, Rochester, NY; Jing Wu, Univ of Rochester Medical Ctr, Rochester, NY; Thu H Le, Univ of Rochester, Rochester, NY

Session 11D

CPCS

11.D.1

3:30- 4:30

One Size Does Not Fit All: Strategies for Blood Pressure Control in Asian People

Independence Ballroom

Moderators: Wanpen Vongpatanasin, MD, FAHA and Nilay S. Shah, MD, MPH, FAHA

3:30 Characteristics of Hypertension in South Asians

Nilay S. Shah, MD, MPH, FAHA

3:45 Hypertension in East Asians- What is different?

Eugene Yang, MD, MS

4:00 Hypertension Management and Disparities in In Hypertension Treatment Among South Asians
Jaideep Patel, MD FACC

4:15 Community-Based Blood Pressure Interventions in South Asia- COBRA-BPS Trial
Tazeen H. Jafar, MD MPH

11.D.2

4:30-5:30 PM

Hypertension in Autoimmune Diseases Independence Ballroom

Moderators: Brandi M. Wynne, PhD, FAHA and Meena Madhur, MD, PhD, FAHA

4:30 Hypertension and Systemic Autoimmune Diseases: A Perilous Synergy
David M Patrick, MD, PhD

4:45 Immune Checkpoints in Autoimmune Vascular Inflammation
Cornelia M. Weyand, MD, PhD

5:00 Links between Systemic Inflammation and Cardiovascular Disease: Focus on Cardio-Rheumatology
Brittany Weber MD, PhD

5:15 Starting a Cardio Rheumatology Clinic
Heba Wassif, MD, MPH

Session 12

5:30 – 6:45 PM

Annual Hypertension Awards Session Grand Ballroom

Moderators: R. Ariel Gomez, MD, FAHA and Jane Reckelhoff, PhD, FAHA

Stephanie Watts Career Development Award finalist presentations

Moderated by: Cam McCarthy, PhD and Monica Santisteban, PhD

5:30 Conditional deletion of renin in the mouse brain results in cardiovascular and respiratory abnormalities in response to hypoxia or autonomic blockade
Pablo Nakagawa, PhD

5:35 Nlrp3 Chromatin Availability And Isolg-adducted Histones In Salt-sensitivity Of Blood Pressure
Ashley Pitzer Mutchler, PhD

5:40 Renal Macrophages From Losartan Treated Mice Transfer The Hypertension
Patricio Araos, PhD

Awardee Presentations

5:45 Harry Goldblatt Award for Early Career Investigators
Mechanisms of vascular endothelial dysfunction in preeclampsia
Jessica Faulkner, PhD, FAHA

6:00 British-Irish Hypertension Awards Presentation
Continuing versus stopping pre-stroke antihypertensive agents within 12 hours of stroke onset is associated with worse outcomes after acute stroke
Dr. Jason Appleton

6:10 British-Irish Hypertension Awards Presentation
Elucidating the genetic architecture of early-onset hypertension

Megha Manoj

6:20 COH Research Award sponsored by the High Blood Pressure Research Council of Australia (HBPRCA)
Crisdion Krstevski

6:30 New Investigator Award for Japanese Fellows
Shinya Taguchi, MD

7:00 – 10:00 PM

Trainee Advocacy Committee Networking Mixer Event
Republic Ballroom B

Saturday, September 9, 2023

Session 13

7:30 - 8:00

The Donald Seldin Lecture

Grand Ballroom

7:30 The Donald Seldin Lecture
Angiotensin Converting Enzyme 2, the Kidney and a Soluble ACE2 Protein to Combat COVID 19
Daniel Battle, MD, FAHA

8:00 - 9:30

Oral Abstract Sessions

Concurrent 13A

Brain-Vascular Interface and Rising Star Lecture

Grand Ballroom

Moderators: Pablo Nakagawa, PhD and Christopher Wilcox MD, PhD, FAHA

8:00 Rising Star Lecture: May the Force be With You: Vascular Interoception and Blood Flow Control
Osama Harraz, PhD

36

8:30 The Single-cell Gene Expression Landscape Of The Hypothalamus During The Development Of Hypertension In Three Major Models
Qiongzhi Qiu, Yong Liu, Hong Xue, Medical Coll of Wisconsin, Milwaukee, WI; Jing Liu, Univ of Rochester, Rochester, NY; Bhavika Therani, Kristie Usa, Jing Huang, Andrew S Greene, Medical Coll of Wisconsin, Milwaukee, WI; Sridhar Rao, Versiti, Brookfield, WI; Aron M Geurts, Allen W Cowley Jr., Pengyuan Liu, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

37

8:45 Neuromodulation Of Adipocyte Activity In Perivascular Adipose Tissue In Healthy Mice
Marie Hanscom, Michigan State Univ, East Lansing, MI; Wilmarie Morales-Soto, Mayo Clinic, Rochester, MN; William F Jackson, MICHIGAN STATE UNIV, Okemos, MI; Brian D Gulbransen, Michigan State Univ, East Lansing, MI

38

9:00 Adipocyte-specific BBSome Deficiency Impacts The Sympathetic Nervous System And Baroreceptor Reflex Sensitivity
Yuying Zhao, Univ of Iowa, Iowa City, IA; Deng-Fu Guo, THE UNIVERSITY OF IOWA, Iowa City, IA; Donald Morgan, Univ of Iowa, Iowa City, IA; Kamal Rahmouni, UNIVERSITY IOWA, Iowa City, IA

39

9:15 B-arrestin Defficiency In The Subfornical Organ Alters Blood Pressure Regulation
Natalia Mathieu, Medical Coll of Wisconsin, Milwaukee, WI; Pablo Nakagawa, Medical college of Wisconsin, Milwaukee, WI; Patricia Muskus Veitia, Medical Coll of Wisconsin, Milwaukee, WI; Daniel Brozoski, Medical

Concurrent 13B

Renal Mechanisms

Constitution Ballroom A

Moderators:

Eun Ji Chung, PhD and Pablo A. Ortiz PhD

40

8:00 Evidence Of Increased Glycolysis In Renal Cortex Of High Salt Fed Sprague Dawley Rats

Satoshi Shimada, Medical Coll of Wisconsin, Milwaukee, WI; Brian Hoffmann, The Jackson Lab, Bar Harbor, ME; Chun Yang, Theresa Kurth, Medical Coll of Wisconsin, Milwaukee, WI; Andrew Greene, The Jackson Lab, Bar Harbor, ME; Mingyu Liang, Ranjan K Dash, Allen W Cowley Jr., Medical Coll of Wisconsin, Milwaukee, WI

41

8:15 Adipocyte (Pro)Renin Receptor Via SPRR Regulates Renal Sodium-glucose Cotransporter-2 Expression And Glomerular Filtration Rate In Mice

Huaqing Zheng, university of utah, salt lake city, UT; Changjiang zou, Kannaree Kaewsaro, SLC, UT; Fei Wang, Univ of utah, salt lake city, UT; Ziwei Fu, Univ of Utah, Salt Lake City, UT; Tianxin Yang, UNIVERSITY UTAH, Salt Lake City, UT

42

8:30 Therapeutic Administration Of L-lysine Leads To The Attenuation Of Salt-sensitive Hypertension Lashodya

Vindana Dissanayake, Vladislav Levchenko, Univ of South Florida, Tampa, FL; Oleg Palygin, Medical Univ of SC, Charleston, SC; Alexander Staruschenko, Univ of South Florida, Tampa, FL

43

8:45 The Role Of Nicotine-induced Nitrosative And Oxidative Stress In The Development Of Podocyte Damage In The Dahl Ss Rat

Daria Ilatovskaya, Augusta Univ, Augusta, GA; Marharyta Semenikhina, MUSC, Charleston, SC; Mykhailo Fedoriuk, Mariia Stefanenko, Medical Univ of South Carolina, Charleston, SC; Alena Cherezova, Augusta Univ, Augusta, GA; Adam Jones, Augusta Univ, Augusta, GA, North Augusta, SC; Krisztian Stadler, Pennington Biomedical, Baton Rouge, LA; Oleg Palygin, Medical Univ of SC, Charleston, SC

44

9:00 Knocking Out Sodium Glucose-Linked Transporter 5 Prevents Fructose-Induced Salt-Sensitive Hypertension

Beau R Forester, Case Western Reserve Univ, Cleveland, OH; Autumn Brostek, Northfield, OH; Agustin Gonzalez-Vicente, Jeffrey Garvin, Case Western Reserve Univ, Cleveland, OH

45

9:15 High Fat Diet Increases Blood Pressure In Sprague Dawley Rats And Induces Salt Sensitive Hypertension: Role Of NKCC2 In The Thick Ascending Limb (TAL)

Jessica Granados Pineda, Henry Ford Health System, Detroit, MI; Mohammed Z Haque, HENRY FORD HOSPITAL, Detroit, MI; Dipak Maskey, Henry Ford Health System, Detroit, MI; Tang-Dong Liao, HENRY FORD HOSPITAL, Detroit, MI; Andrew J Eaton, Henry Ford Health System, Detroit, MI; Pablo A Ortiz, HENRY FORD HEALTH, Wayne State U, Detroit, MI

Concurrent 13C

Improving Blood Pressure Monitoring Precision: Emerging Tools and Predictors

Constitution Ballroom B

Moderators: Angela L. Price, MD and Daichi Shimbo, MD

46

8:00 Association Of Cancer With The Risk Of Developing Hypertension

Hajime Nagasawa, The Dept of Cardiovascular Med, The Univ of Tokyo/Dept of Nephrology, Juntendo Univ Faculty of Med, Tokyo, Japan; Hidehiro Kaneko, The Dept of Cardiovascular Med, The Univ of Tokyo/The Dept

of Advanced Cardiology, The Univ of Tokyo, Tokyo, Japan; Yuta Suzuki, The Dept of Cardiovascular Med, The Univ of Tokyo/Ctr for Outcomes Res and Economic Evaluation for Health, Natl Inst of Public Health, Tokyo/Saitama, Japan; Akira Okada, Dept of Prevention of Diabetes and Lifestyle-Related Diseases, Graduate Sch of Med, The Univ of Tokyo, Tokyo, Japan; Katsuhito Fujiu, The Dept of Cardiovascular Med, The Univ of Tokyo/The Dept of Advanced Cardiology, The Univ of Tokyo, Tokyo, Japan; Norifumi Takeda, Hiroyuki Morita, The Dept of Cardiovascular Med, The Univ of Tokyo, Tokyo, Japan; Akira Nishiyama, Dept of Pharmacology, Faculty of Med, Kagawa Univ, Kagawa, Japan; Yuichiro Yano, Noncommunicable Disease (NCD) Epidemiology Res Ctr, Shiga Univ of Medical Science, Shiga, Japan; Koichi Node, Dept of Cardiovascular Med, Saga Univ, Saga, Japan; Hideo Yasunaga, The Dept of Clinical Epidemiology and Health Economics, Sch of Public Health, The Univ of Tokyo, Tokyo, Japan; Issei Komuro, The Dept of Cardiovascular Med, The Univ of Tokyo, Tokyo, Japan

47

8:15 **Understanding Patient And Practitioner Use Of The US Validated Device Listing (VDL™)**
Nar Ramkissoon, Matthew McReynolds, American Medical Association, Chicago, IL

48

8:30 **Clinical Impact Of 3 Versus 5-minute Delay And 30 Versus 60-second Intervals On Automated Office Blood Pressure Measurements**

Erika Lynn-Green, Harvard Medical Sch, Boston, MA; **anthony ishak**, Beth Israel Deaconess, Boston, MA; **Jennifer Cluett**, BIDMC-Harvard Medical Sch, Boston, MA; **Ruth-Alma N Turkson-Ocran**, Beth Israel Deaconess Medical Ctr, Boston, MA; **Ken J Mukamal**, BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, MA; **Marc L Cohen**, Beth Israel Deaconess Medical Ctr, Boston, MA; **Jonathan Li**, BIDMC, Boston, MA; **Stephen P Juraschek**, BIDMC-Harvard Medical Sch, Boston, MA

49

8:45 **The Effect Of Temperate Seasonality On Systolic Blood Pressure Is Amplified In Population Control Rates**
Robert B Barrett, American Medical Association, Greenville, SC; **Ben Martin**, Benjamin Riesser, Susan E. Sutherland, American Medical Association, Greenville, SC; **Michael Rakotz**, CHICAGO, IL; **Brent M Egan**, American Medical Association, Greenville, SC

50

9:00 **Leveraging Electronic Health Records To Assess Delay In Hypertension Diagnosis: Insights From A Large Regional Health System**

Yuan Lu, Yale Univ, New Haven, CT; **John E Brush Jr.**, SENTRA HEALTHCARE, Norfolk, VA; **Yuntian Liu**, Yale Sch of Med, New Haven, CT; **Mitsuaki Sawano**, Keio Univ, Tokyo, Japan; **Jordan Asher**, Patrick Young, Sentara Health, Norfolk, VA; **Wade Schulz**, Mark Anderson, Yale Sch of Med, New Haven, CT; **John Burrows**, Harlan M Krumholz, Yale Univ, New Haven, CT

51

9:15 **Racial Differences In Hypertension Self-care Behaviors Among Adults With Hypertension In The Baltimore And Washington, D.C. Area**

Faith E Metlock, Johns Hopkins Univ, Baltimore, MD; **Oluwabunmi Ogungbe**, Xiaoyue Liu, THOMAS HINNEH, Baltimore, Johns Hopkins School of Nursing, MD; **Cheryl R Dennison**, JOHNS HOPKINS UNIV, Baltimore, MD; **Judy Greengold**, Johns Hopkins Univ, Baltimore, MD; **Haera Han**, JOHNS HOPKINS UNIV SCH NURSING, Baltimore, MD; **Yvonne Commodore-Mensah**, JOHNS HOPKINS SCHOOL OF NURSIN, Baltimore, MD

Session 13D

Clinical Practice/Clinical Science

13.D.1

7:30- 8:30

ABPM Update: Guidelines for Pediatrics

Independence Ballroom

Moderators: Elaine M. Urbina, MD, MS FAHA and Andrew H. Tran, MD, MS

7:30 **Risk for CV Disease Related to Childhood Blood Pressure**

Elaine M. Urbina, MD, MS FAHA

7:47 **Determinants of ABPM**

Joshua Samuels, MD, MPH

8:04 **Pediatric ABPM Classification: What's new? Where do we go from here?**
Joseph T Flynn, MD, MS

8:21 **Discussion/Q&A**

13.D.2

8:30 – 9:30

Debate: New Therapies for Hypertension are Needed (Drugs and Devices) vs. Implementation Independence Ballroom

Moderators: Kristi Reynolds, PhD, MPH, FAHA, FACE and Naomi DL Fisher MD

8:30 **Implementation**
Keith C. Ferdinand, MD, FAHA

8:45 **Therapies**
J. Matt Luther, MD, MSCI, FAHA

9:00 **Rebuttal**
Keith C. Ferdinand, MD, FAHA

9:05 **Rebuttal**
J. Matt Luther, MD, MSCI, FAHA

9:10 **Discussion**

9:30 – 10:00 AM

Coffee Break

Session 14

10:00 -10:30 AM

Harriet Dustan Award

Grand Ballroom

10:00 **Harriet Dustan Award Lecture**
Hypertension and Cardiovascular Risk in Adults born Preterm: A Different Pathway to Disease
Anne-Monique Nuyt, MD, FAHA

10:30 AM- 12:00 PM

Oral Abstract Sessions

Concurrent 14A

Vascular Renal Interface and Rising Star Lecture

Grand Ballroom

Moderators: Cameron G. McCarthy, PhD, FAHA and Thu H. Le, MD, FAHA

10:30 **Rising Star Lecture: Hemodynamic and Immune Mechanisms of CKD**
Jing Wu, PhD

52

11:00 **Vascular Endothelin-1 Mediates Hyperoxia-induced Cellular Stress In Kidney Vessels**
Sara N. Biswal, William A. Johnston, Abigayle C. Kraus, Gabriel J. Coleman, Carmen De Miguel, Univ of Alabama at Birmingham, Birmingham, AL

53

11:15 **Enhanced Endothelial Cd36 Signaling Promotes Vascular Stiffening**

Dongqing Chen, Columbia, MO; Peeradol Wattanasirakul, Aman F Chishti, Katherine A Morrison, Univ of Missouri Sch of Med, Columbia, MO; **Guanghong Jia**, UNIVERSITY OF MISSOURI, Columbia, MO

54

11:30 **Role Of The Immunoproteasome In Hypertension-associated Immune Activation**

Nestor de la Visitacion, Wei Chen, Jaya Krishnan, Vanderbilt Univ Medical Ctr, Nashville, TN; Justin P Van Beusecum, Medical Univ of South Carolina, Charleston, SC; Venkataraman Amarnath, Vanderbilt Univ Medical Ctr, Nashville, TN; Elizabeth M. Hennen, Vanderbilt Univ, Nashville, TN; Shilin Zhao, Mohammad Saleem, Mingfang Ao, David G Harrison, David M. Patrick, Vanderbilt Univ Medical Ctr, Nashville, TN

55

11:45 **Estrogen And Smooth Muscle Cell Estrogen Receptor Alpha Modulate Arterial Stiffness**

Casey G. Turner, Tufts Medical Ctr, Boston, MA; Gregory Martin, Qing Lu, Tufts Medical Ctr, Boston, MA; Zhe Sun, Univ of Missouri, Columbia, MO; Iris Z Jaffe, TUFTS MEDICAL CENTER, Boston, MA; Michael A Hill, UNIVERSITY OF MISSOURI, Columbia, MO; Jennifer Dupont, TUFTS MEDICAL CENTER, Boston, MA

Concurrent 14B

CNS Mechanisms in Hypertension

Constitution Ballroom A

Moderators: Eric D. Lazartigues, PhD, FAPS, FAHA and Yumei Feng Earley, MD, PhD, FAHA

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10:30 **Pooled, 6-month Renal Safety And Blood Pressure Reductions Using The Symplicity Spyrax Radiofrequency Renal Denervation Catheter**

Eric Secemsky, CardioVascular Inst at Beth Israel Deaconess Medical Ctr, Boston, MA; Felix Mahfoud, SAARLAND UNIVERSITY HOSPITAL, Homburg; Giuseppe Mancina, Univ of Milan Bicocca, Milan, Italy; Raymond R Townsend, PENNSYLVANIA SCHOOL MED UNIV, Philadelphia, PA; David E Kandzari, PIEDMONT HEART INST, Atlanta, GA; Robert Whitbourn, Svphm, East Melbourne, Australia; Doug Hettrick, Medtronic Inc, Santa Rosa, CA; Michael Böhm, 2Univsklinikum des Saarlandes, Saarland Univ, Homburg, Germany

57

10:45 **The Positive Effect Of Renal Denervation Persists Even Through Regrowth Of Afferent Axons Improving Renal Afferent Nerve Activity During High Sodium Intake In Rats**

Kristina Rodionova, Univ Erlangen, Erlangen, Germany; Tilmann Ditting, FAU Erlangen, PMU Nuremberg, Erlangen, Germany; Sophia Lindner, Univ Erlangen, Erlangen, Germany; Peter R Linz, UNIVERSITY CLINIC ERLANGEN, Erlangen; Nada Cordasic, UNIVERSITY CLINIC ERLANGEN, Erlangen, Erlangen; Karl F Hilgers, UNIVERSITY OF ERLANGEN-NUREMBERG, Erlangen; Mario Schiffer, Univ Hosp Erlangen, Erlangen; Roland E Schmieder Jr., NEPHROLOGY AND HYPERTENSION, Erlangen; Kerstin Amann, Pathology, Erlangen, Germany; Roland Veelken, Univ Erlangen, PMU Nuremberg, Erlangen, Germany

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11:00 **Factors Contributing To Postprandial Hypotension In Neurogenic Orthostatic Hypotension**

Pouya E Mehr, Kaitlyn R Hay, Vanderbilt Univ Medical Ctr, Nashville, TN; Robert Castro, Nashville, TN; Tan Ding, Daniel O Claassen, Vanderbilt Univ Medical Ctr, Nashville, TN; Italo Biaggioni, VANDERBILT UNIVERSITY, Nashville, TN; Amanda Peltier, Vanderbilt Univ Medical Ctr, Nashville, TN; Cyndya A Shibao, VANDERBILT UNIV. MEDICAL CENTER, Nashville, TN

59

11:15 **(Pro)renin Receptor Ablation In Tyrosine Hydroxylase Neurons In The Paraventricular Nucleus Of The Hypothalamus Improves Insulin Sensitivity In Mice Fed A High-fat Diet**

Shiyue Pan, Univ of Nevada, Reno, RENO, NV; Caleb Worker, Univ of Nevada, Reno Medical, Reno, NV; Ariana Gayban, Univ of Nevada, Reno, RENO, NV; Yumei Feng Earley, UNIVERSITY OF NEVADA, RENO, Reno, NV

60

11:30 **Conditional Deletion Of Renin In The Mouse Brain Results In Cardiovascular And Respiratory Abnormalities In Response To Hypoxia Or Autonomic Blockade**

Eva M Fekete, Medical college of Wisconsin, Milwaukee, WI; Patricia Muskus Veitia, Medical Coll of Wisconsin, Milwaukee, WI; Natalia Mathieu, Medical Coll of Wisconsin, Wauwatosa, WI; Daniel Brozoski, Medical Coll of Wisconsin, Wauwatosa, WI, Milwaukee, WI; Daria Golosova, Javier Gomez, Gary Mouradian

Jr., Medical Coll of Wisconsin, Milwaukee, WI; Matthew Hodges, Milwaukee, WI; Justin L Grobe, Curt D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI; Pablo Nakagawa, Medical college of Wisconsin, Milwaukee, WI

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11:45 Continuous And Cyclic Components Of Blood Pressure Profile Have Impact On Different Brain Areas In Controlled Hypertensive Patients

Lorenzo Carnevale, I.R.C.C.S. Neuromed, Pozzilli, Italy; Daniela Carnevale, Sapienza Univ Rome - Neuromed, Pozzilli, Italy; Guido Grassi, Clinica Medica Ospedale San Gerardo, Washington, DC; Giuseppe Lembo, IRCCS Neuromed, Pozzilli, Italy

Concurrent 14C

Pregnancy and Hypertension

Constitution Ballroom B

Moderators: Jessica L Faulkner, PhD, FAHA and Denise C Cornelius, PhD, FAHA

62

10:30 Lower Middle Cerebral Artery Resistance In A Transgenic Rat Model Of Preeclampsia: A Platform For Studying Long-term Preeclampsia Induced Cerebrovascular Disease

Jonathan W Ray, Xuming Sun, Dept of Surgery/Hypertension and Vascular Res Ctr, Wake Forest Univ Sch of Med, Winston-Salem, NC; Hossam Shaltout, Dept of Surgery/Hypertension and Vascular Res Ctr, Dept of Obstetrics and Gynecology, Wake Forest Univ Sch of Med, Winston-Salem, NC; Liliya M Yamaleyeva, Dept of Surgery/Hypertension and Vascular Res Ctr, Wake Forest Univ Sch of Med, Winston-Salem, NC

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10:45 Pregnancy Protects Aged G Protein-coupled Estrogen Receptor 1 Knock-out Mice Against Hypertension

Ravneet Singh, Vanderbilt Univ Medical Ctr, Nashville, TN; Rawan N Almutlaq, Univ of Alabama at Birmingham, Birmingham, AL; Victoria L Nasci, Eman Y Gohar, Vanderbilt Univ Medical Ctr, Nashville, TN

64

11:00 CD4+ T Cells Mediate Pregnancy-induced Renal Damage In The Dahl SS In A Process Dependent Upon NADPH Oxidase 2 (NOX2)

John Henry Dasinger, Samuel D Walton, Justine M Abais-Battad, Emily Burns, Mary Shaw, Augusta Univ, Augusta, GA; David L Mattson, Medical Coll Of Georgia, Augusta, GA

65

11:15 Reduction Of Endoplasmic Reticulum Stress By Treatment With Nifedipine In A Mouse Model Of Preeclampsia And In Human Placental Endothelial Cells

Allahnah Achille, CIUSSS Nord-de-L'Île-de-Montréal, Montreal, QC, Canada; Rim Atioui, CIUSSS Nord-de-l'Île-de-Montréal, Montreal, QC, Canada; Casandra Marc, CIUSSS Nord-de-L'Île-de-Montréal, Montreal, QC, Canada; Geneviève Fréreau, Lydia Hannou, Isabelle Vachon, CIUSSS Nord-de-l'Île-de-Montréal, Montreal, QC, Canada; Julie L Lavoie, CHUM, Montreal, QC, Canada; **Mariane Bertagnolli**, McGill Univ, Montreal, QC, Canada

66

11:30 Decoy Peptide Attenuates The Syndrome Of preeclampsia In A Rodent Model

Waverly B. Kundysek, Texas A&M Sch of Med, Temple, TX; Ahmed Pantho, Orion Inst Trans Med, Austin, TX; Syeda Afroze, Orion Inst for Translational Med, Austin, TX; Niraj Vora, Baylor Scott and White Hosp, Temple, TX; Thomas Kuehl, Orion Inst for Translational Med, Austin, TX; David C Zawieja, TAMUS HEALTH SCI CENTER, College Station, TX; Mohammad Nasir Uddin, Baylor Scott & White Health, Temple, TX

67

11:45 Suppression Of The Renin Angiotensin Aldosterone System In Human Hypertensive Pregnancy

Robin C Shoemaker, UNIVERSITY OF KENTUCKY, Lexington, KY; Marko Poglitsch, ATTOQUANT, Vienna; Hong Huang, Katie Vignes, Univ of Kentucky, Lexington, KY; John Anthony Bauer, Cynthia Cockerham, Univ of Kentucky Coll Med, Lexington, KY; John O'Brien, Lexington, KY

Session 14D

10:00 AM – 12:00 PM

Clinical Practice/Clinical Science

14.D.1

10:00- 11:00 AM

Hypertension Clinical Trials, What's New, What's Next?

Independence Ballroom

Moderators: Natalie A. Bello, MD MPH and John A. Dodson, MD, MPH

10:00 **Pediatric Hypertension: Where We have Been and Where We Need to Go**

Elaine M. Urbina, MD, MS FAHA

10:12 **Pressure Points: A Pragmatic Trial to Address BP Control and SDOH**

Erica S Spatz, MD, MHS, FAHA

10:24 **Novel Methods of Data Collection and Virtual Enrollment: The Hugo Health Concept**

Harlan M. Krumholz, MD, FAHA

10:36 **An Adaptive Design to Identify Minimum Sedentary Breaks to Reduce Cardiometabolic Risks**

Ken Cheung, PhD

10:48 **Panel Discussion/Q&A**

14.D.2

11:00- 12:00

Renovascular Mechanisms of HTN

Independence Ballroom

Moderators: Matthew Alexander, MD, PhD and Raymond R Townsend MD, FAHA

11:00 **Fibromuscular Dysplasia (FMD): Molecular and Genetic Mechanisms of Arterial Fibrodysplasia and Renovascular Hypertension**

Santhi K. Ganesh, MD, FAHA

11:15 **Renal Denervation Methods**

Florian Rader, MD, MSc

11:30 **Current State of Renal Denervation**

Jordana Cohen, MD, MSCE

11:45 **ApoL1 and HTN and progression of CKD**

Adriana M. Hung, MD, MPH

12:00 – 12:30 PM

Learning Studio sponsored by ReCor

This event is not part of the official Hypertension 2023 programming as planned by the AHA Committee on Hypertension Program.

Republic Ballroom

On the Horizon – Considering Ultrasound Renal Denervation (uRDN)

Speakers: Naomi Fisher, MD, Michael Bloch, MD and Jan Basile, MD

Topics:

- Dealing with the challenges in effective BP control.
- What does the clinical science tell us?
- What does the patient want?
- Where do we go from here? (a panel discussion)

Food & Beverage provided by AHA

Session 15

12:30 – 1:30 PM

Meet the Journal Editors Networking Event

Constitution A

Session 16

1:30 – 3:00 PM

TAC Oral Abstract Sessions

Concurrent 16A

Trainee Advocacy Committee Early Career Oral Award Finalists

Grand Ballroom

Moderators: Cameron G. McCarthy, PhD, FAHA and Monica M. Santisteban, PhD

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1:30 **Diabetic CD4+T Cells Causes Increased Glucose, Hypertension, Renal Injury, And Decreased Vascular Endothelial Cell Function In A Novel Rat Model Of Diabetes During Pregnancy**

Evangeline M Deer, Jan M Williams, Mariah Wilson, Owen Herrock, Nathan Campbell, Lorena Amaral, Babbette B Lamarca, Univ of MS Medical Ctr, Jackson, MS

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1:45 **Klf2, A Transcriptional Component Of The Renin Cell Baroreceptor**

Hiroki Yamaguchi, Univ of Virginia Sch of Med, Charlottesville, VA; Jason Paul Smith, Univ of Virginia, Charlottesville, VA; Minghong Li, UVA, Charlottesville, VA; Hirofumi Watanabe, UVA, Charlottesville, VA, Japan; Silvia Medrano, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Maria Luisa S Sequeira Lopez, UNIVERSITY VIRGINIA, Charlottesville, VA; Roberto A Gomez, UNIVERSITY OF VIRGINIA, Charlottesville, VA

70

2:00 **Deletion Of A Non-coding Genomic Segment Orthologous To The Human Rs1173771 Haplotype Region Attenuates Hypertension In Dahl Salt-sensitive Rats**

Hong Xue, Pengyuan Liu, Mark Vanden Avond, Michael Grzybowski, Jingli Wang, Rong Ying, Justin Westhoff, Michael E Widlansky, Allen W Cowley Jr., Aron M Geurts, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

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2:15 **Seated And Supine Blood Pressure And Risk Of Cardiovascular Disease And Mortality From The Atherosclerosis Risk In Communities Study**

Duc M. Giao, Harvard Medical Sch, Boston, MA; Hannah Col, Fredrick Larbi Kwapong, **Ruth-Alma Turkson-Ocran**, Long Huu Ngo, Jennifer Cluett, BIDMC-Harvard Medical Sch, Boston, MA; Lynne Wagenknecht, Winston-Salem, NC; B Gwen Windham, UMMC, The MIND Ctr, Jackson, MS; Elizabeth Selvin, JOHNS HOPKINS UNIVERSITY, Baltimore, MD; Pamela L Lutsey, UNIVERSITY OF MINNESOTA, Minneapolis, MN; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Boston, MA

72

2:30 **Sex Differences In The Relationship Between The Age Of Hypertension Diagnosis And Brain Structure In Midlife And Older Population: New Insights From The Uk Biobank**

Amanpreet Kaur, Res Inst of McGill Univ Health Ctr, Montreal, QC, Canada

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2:45 **Blood Pressure Trajectories Among Young Veterans: Differences By Sex, Race, And Ethnicity**

Tiffany E Chang, Yale Sch of Public Health, New Haven, CT; Allison E Gaffey, Yale Sch of Med, New Haven, CT; Eugenia Buta, Yale Sch of Public Health, New Haven, CT; cynthia brandt, Yale Univ, new haven, CT; Judith H Lichtman, YALE SCHOOL OF PUBLIC HEALTH, New Haven, CT

Concurrent 16B

Evolving Landscape of Multi-Omics in Hypertension

Constitution Ballroom A

Moderators: Sivarajan Kumarasamy, PhD and Jessica L Faulkner, PhD, FAHA

74

1:30 **Discovery Of Post-Translationally Modified Self-peptides Responsible For T-cell Autoimmunity In Hypertension**

Nathaniel Bloodworth, Wei Chen, Vanderbilt Univ Medical Ctr, Nashville, TN; David M Patrick, Nashville, TN; Mingfang Ao, Vanderbilt Univ medical Cente, Nashville, TN; Rocco Moretti, Vanderbilt Univ Medical Ctr, Nashville, TN; Jens Meiler, Vanderbilt Univeristy, Nashville, TN; Sean S Davies, VANDERBILT UNIVERSITY, Nashville, TN; David G Harrison, VANDERBILT, Nashville, TN

75

1:45 **Ketone Bodies Rescue Mitochondrial Dysfunction And Improve Maladaptive Epigenetic Remodeling In Heart Failure**

Fahimeh Varzideh, Stanislovas S Jankauskas, Urna Kansakar, Simone Sidoli, Jessica Gambardella, Gaetano Santulli, Albert Einstein Coll of Med, Bronx, NY

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2:00 **The Blood Pressure-associated Non-coding Single Nucleotide Polymorphism Rs28451064 Influences Gene Expression In Human Endothelial Cells**

Rajan Pandey, Yong Liu, Pengyuan Liu, Bhavika Therani, Aron M Geurts, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI

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2:15 **Protein Biomarkers Of Hypertension**

Mohit Aggarwal, NHLBI, Bethesda, MD; Dong Heon Lee, Tianxiao Huan, NHLBI, Framingham, MA; Mcneil Jenna, Paul Courchesne, Massachusetts General Hosp, Boston, MA; Roby Joehanes, Josee Dupuis, Boston Univ SPH, Boston, MA; George O'Connor, Daniel Levy, NHLBI-FRAMINGHAM HEART STUDY, Newton Highlands, MA

78

2:30 **Epigenetic Chronotherapy For Hypertension: Sleep-time Supplementation Of 1,3-butanediol Confers Better Protection Against Hypertension Via Enhanced Histone β -hydroxybutyrylation**

Sachin Aryal, Univ of Toledo, Toledo, OH; Saroj Chakraborty, Juthika Mandal, The Univ of Toledo, Toledo, OH; Blair Mell, Ryan Issa, Ishan Manandhar, Univ of Toledo, Toledo, OH; Bina Joe, Univ of Toledo HSC, Toledo, OH

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2:45 **Multi-omics Analyses Identify Galectin-1 As A Potential Novel Mediator Of Heart Failure With Preserved Ejection Fraction In Mice And Humans**

Jean W Wassenaar, Vanderbilt Univ Medical Cente, Nashville, TN; Charles D Smart, Nashville, TN; Daniel J Fehrenbach, VUMC, Nashville, TN; Matthew Mayes Dungan, Vanderbilt Univ, Nashville, TN; Doran Amanda C, Megan Shuey, Vanderbilt Univ Medical Ctr, Nashville, TN; Meena S Madhur, VANDERBILT UNIVERSITY, Nashville, TN

Concurrent 16C

RAAS Update: This Isn't Your Parent's RAAS System

Constitution Ballroom B

Moderators: Brandi M. Wynne, PhD, FAHA and Natalia M. Mathieu

80

1:30 **The Non-steroidal Mineralocorticoid Receptor Antagonist Finerenone Improves Diastolic Dysfunction In Preclinical Non-diabetic Chronic Kidney Disease**

Ixchel Lima Posada, INSERM, UMRS 1138, PARIS, France; Yohan STEPHAN, Rouen, France; Matthieu Soulié, INSERM, UMRS 1138, PARIS, France; Roberto Palacios-Ramirez Sr., INSERM U1138, Paris, France; Benjamin Bonnard, INSERM, UMRS 1138, PARIS, France; Peter Kolkhof, BAYER AG, Wuppertal; paul Mulder, INSERM U1096, Rouen, France; Frederic Jaisser, INSERM DR6, Paris, France

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1:45 **Transactivation Of Brain ADAM17 In Angiotensin II-Induced Hypertension Can Be Prevented By Kinin B1 Receptor Blockade**

Drew Theobald, Srinivas Sriramula, East Carolina Univ, Greenville, NC

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2:00 **Dysregulated Microbiota-indole Axis In Male, Not Female Ace2 Deficient Salt-sensitive Hypertension**

Pritam Bardhan, Xue Mei, Khanh Lai, Blair Mell, Ramakumar Tummala, Rohit Atluri, Jun Kyoung, Bina Joe, - Tao Yang, Univ of Toledo HSC, Toledo, OH

83

2:15 **Neurovascular And Cognitive Dysfunction In Middle-Aged Mice With High Blood Pressure Variability**

Perenkita Jessica Mendiola, Philip Oherron, Kun Xie, Michael W Brands, Kathleen Coleman, Rachel Patterson, Cameron Folk, Valeria Di Stefano, Augusta Univ, Augusta, GA; Jessica A Filosa, 1120 15TH STREET, Augusta, GA

84

2:30 Smooth Muscle Cullin-3 Regulates The Renal Baroreceptor Mechanism Via Lamin AC

Daria Golosova, Gaurav Kumar, Ko-Ting Lu, Medical Coll of Wisconsin, Milwaukee, WI; Daniel T. Brozoski, Medical Coll of Wisconsin, Milwaukee, WI; Patricia Muskus Veitia, Medical Coll of Wisconsin, Milwaukee, WI; Pablo Nakagawa, Medical college of Wisconsin, Milwaukee, WI; Curt D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI

85

2:45 Monocytes-derived Cytokines Induce Endothelial Dysfunction In Primary Aldosteronism

Marta Kantauskaite, Rebecca Wieners, Masudur Rahman, Claudia Schmidt, Heinrich-Heine Univ, Duesseldorf, Germany; Lars Christian Rump, Heinrich-Heine-Univ, Dusseldorf, Germany; **Johannes Stegbauer**, Heinrich-Heine Univ, Duesseldorf, Germany

Session 16D

1:30 – 3:00 PM

Hypertension Case Study Session

Independence Ballroom

(Planned by Hypertension editors)

Case Presentation I

Flow disturbances: competing interests in a case of hypertensive emergency

Moderators: Dr. John Flack, MD and Dr. Jordana B. Cohen, MD, MSCE

Presenters:

Matthew R Alexander, MD, PhD

James Matthew Luther, MD, MSCI

Case Presentation II

A worrying and puzzling case of Hypertension presenting to the Emergency Department

Moderators: Dr. Garry Jennings, MD and Dr. Bunmi Ogungbe, PhD, MPH, RN

Presenter:

Prof. Gian Paolo Rossi, MD, FACC, FAHA

3:00 – 3:30 PM

Coffee Break

3:30- 4:30

Oral Abstract Sessions

Concurrent 17A

Grand Ballroom

Microbiome Mechanisms Regulating Blood Pressure

Moderators: Annet Kirabo, DVM, MSc, PhD, FAHA and Dominik N. Müller, PhD

86

3:30 Examining The Role Of Bacterial Extracellular Vesicles In Host Blood Pressure Regulation

Rishi Wagle, Feiya Shi, Sriram Ayyaswamy, **David J Durgan**, Baylor Coll of Med, Houston, TX

87

3:45 Genetically Engineered Gut Microbiota For Delivery Of Angiotensin Converting Enzyme 2 Attenuates Hypertension

Ishan Manandhar, Univ of Toledo, Toledo, OH; Xue Mei, Toledo, OH; Blair Mell, Sachin Aryal, Ramakumar Tummala, Jasenka Zubcevic, Univ of Toledo, Toledo, OH; Khanh Lai, Toledo, OH; Tao Yang, Univ of Toledo,

Toledo, OH; QiuHong Li, UNIVERSITY OF FLORIDA, Gainesville, FL; Bina Joe, Univ of Toledo HSC, Toledo, OH

88

4:00 **Modulatory Effects Of The Gut Microbiota-derived Short Chain Fatty Acids On Heart Rate And Vascular Tone In Larval Zebrafish**

Hemaa Sree Kumar, The Univ of Toledo, Toledo, OH; Alexander Wisner, sylvania, OH; Isaac T Schiefer, UNIVERSITY OF TOLEDO, Toledo, OH; Jasenka Zubcevic, Univ of Toledo, Toledo, OH

89

4:15 **Periodontitis Accelerates The Onset Of Arterial Hypertension In SHR, While The Electrical Activation Of The Carotid Sinus Nerve Delays The Beginning Of The Increase In Blood Pressure.**

Tereza C Buzinari, Jaci A Castania, Ribeirão Preto Medical Sch, Ribeirão Preto, Brazil; Sergio L Salvador, Pharmaceutical Sciences Sch, Ribeirão Preto, Brazil; Rubens Fazan Jr, Ribeirão Preto Medical Sch, Ribeirão Preto, Brazil; **Helio C Salgado**, Ribeirão Preto Medical Sch, Ribeirão Preto, Brazil

Concurrent 17B

Constitution Ballroom A

In and Out of Office Blood Pressure Monitoring in the Real-World Setting

Moderators: Natalie A. Bello, MD MPH and J. Matt Luther, MD, MSCI, FAHA

90

3:30 **Using Evidence-Based Resources And Unique Self-Measured Blood Pressure Program Designs To Improve Blood Pressure Control**

Alison Smith, American Heart Association and American Medical Association, Chicago, IL; Ashley Wagner, American Heart Association, Madison, WI; Leslie Brown, American Heart Association, Richmond, CA; Celicia Cardoso, American Heart Association, Dallas, TX; Mahsa Dadkhah, Via Care, Los Angeles, CA; Crystal Decuir, SWLA, Lafayette, LA; Sondi Fiegel, American Heart Association, Waxahachie, TX; Nekeisha Harrison, American Heart Association, Dallas, TX; Mark V. Mooney, American Heart Association, Decatur, GA; David Pena, American Heart Association, Addison, TX; Jan Pillai, American Heart Association, Allen, TX; Sonia Ramirez, American Heart Association, Dallas, TX; Amy Royer, American Heart Association, Boise, ID; Jodi Tate, Canyonlands, Page, AZ; Eduardo J Sanchez, American Heart Association, Dallas, TX

91

3:45 **Efficacy Of A Patient-engagement Platform In Reducing Uncontrolled Hypertension In Community Health Clinics**

Irina Yermilov, Randall Coatney, Harry Soza, CAREMINDr, Los Gatos, CA; Kenneth Anderson, Univ of Iowa, Iowa City, IA

92

4:00 **All-cause And Cardiovascular Mortality In White Coat Hypertension: An Updated Systematic Review And Meta-analysis**

Jordana Cohen, Univ of Pennsylvania, Philadelphia, PA; Debbie L Cohen, UNIV OF PENNSYLVANIA, Philadelphia, PA; Raymond R Townsend, PENNSYLVANIA SCHOOL MED UNIV, Philadelphia, PA

93

4:15 **Does Ambulatory Blood Pressure Variability Predicts Target Organ Damage In Youth? The Ship Ahoy Study**

Elaine M Urbina, Cincinnati Children's Hosp, Cincinnati, OH; Coral Hanevold, Univ of Washington, Charleston, SC; Bonita Falkner, Thomas Jefferson Univ, Philadelphia, PA; Michael Ferguson, Boston Children's Hosp, Boston, MA; Marc B Lande, UNIVERSITY ROCHESTER MEDICAL CTR, Rochester, NY; Kevin Meyers, Children's Hosp of Philadelphia, Drexel Hill, PA; Mark Mitsnefes, CINCINNATI CHLDNRNS HOSP MED CTR, Cincinnati, OH; Joshua A Samuels, McGovern Medical Sch at UTHealth, Houston, TX; Joseph T Flynn Jr., SEATTLE CHILDRENS HOSPITAL, Seattle, WA

Concurrent 17C

Constitution Ballroom B

Sex Differences in Mechanisms of Hypertension

Moderators: Noha M. Shawky, PhD and Jing (Jason) Wu, PhD, FAHA

94

- 3:30 **Sex-specific Effects Of Sleep Apnea And Medication-treated Depression On Left Ventricular Mass Index And 3D Left Ventricular Global Longitudinal Strain In The CARDIA Study**
Ion Campeanu, Wayne State Univ Medical Sch, Detroit, MI; Noreen F Rossi, WAYNE STATE UNIVERSITY, Detroit, MI; Dragana Komnenov, Wayne State Univ Medical Sch, Detroit, MI
- 95
- 3:45 **Sex-specific Mechanisms Of Obesity-associated Hypertension Are Not Dependent On Ovarian-derived Sex Hormones**
Candee Barris, Augusta Univ, Augusta, GA; Taylor Kress, Medical Coll of Georgia, Augusta, GA; Galina Antonova, Augusta Univ, Augusta, GA; Jessica L Faulkner, AUGUSTA UNIVERSITY, Augusta, GA; Eric J Belin De Chantemele, MEDICAL COLLEGE OF GEORGIA AT AU, Augusta, GA
- 96
- 4:00 **Effects Of Chronic Hypertension And Sex On Spatial Reference And Working Memory**
Jamie C Reulbach, Emily Baumoel, Univ of Vermont, Burlington, VT; Abbie C Johnson, UNIVERSITY OF VERMONT, Burlington, VT
- 97
- 4:15 **Sexually Dimorphic Transcriptional Phenotypes In Tubular Epithelial Cells Of The Rat Kidney**
Benjamin K. Kramer, Ronghao Zhang, Agustin Gonzalez-Vicente, Case Western Reserve Univ, Cleveland, OH

4:30 - 5:30

Session 17

Council on Kidney in Cardiovascular Disease Mid-Career Achievement Award and Council on Hypertension Mid-Career Award for Research Excellence
Grand Ballroom

- 4:30 **KCVD Mid-Career Achievement Award Lecture**
The Podocyte in Hypertension: A Long Road That Has NO Turning.
Oleg Palygin, MSc, PhD, FAHA
- 5:30 **COH Mid-Career Award for Research Excellence Lecture**
Norepinephrine Reuptake Inhibition for the Treatment of Neurogenic Orthostatic Hypotension
Cyndya A. Shibao, MD, MSCI, FAHA

Session 17D

3:30 – 5:30 PM

Primary Care

17.D.1

3:30 -4:30

Case-Based Learning: Special Conditions
Independence Ballroom

Moderator: Jan Basile, MD, FAHA

- 3:30 **Caring for Patients with Labile BP**
Cyndya Shibao, MD, MSCI, FAHA, FAAS
- 3:45 **Resistant Hypertension**
Vivek Bhalla, MD, FAHA, FASN
- 4:00 **CKD: Challenges, Agent Choice, Novel Agents**
Alexander Chang, MD, MS, FAHA
- 4:15 **Panel Discussion/Q&A**

17D.2.1

4:30- 5:00

Debate: Renal Denervation for Non-Resistant Hypertension: An Alternative to Medications?

Independence Ballroom

Moderator: Jennifer L. Cluett, MD

4:30 **Introduction of Speakers and Evidence Related to Renal Denervation**
Jennifer L. Cluett, MD

4:32 **Pro**
Naomi DL Fisher, MD

4:36 **Con**
Cassandra Ford, PhD, MBA, RN, FAHA, FGSA

4:40 **Moderated Q&A**

4:56 **Closing Summaries**

17.D.2.2

5:00 – 5:30

Debate: Treatment of Hypertension in Adolescents and Young Adults: Is it Ever Too Early to Treat Hypertension?

Independence Ballroom

Moderator: Norrina Allen, PhD, MPH, FAHA

5:00 **Early Life Blood Pressure and Its Effects Across the Life Course**
Norrina Allen, PhD, MPH, FAHA

5:02 **Pro: Treat Hypertension in the Young to Prevent Adult CV Disease**
Elaine M. Urbina, MD, MS, FAHA

5:06 **Con**
J. William (Bill) McEvoy, MB BCh, MHS, PhD

5:10 **Moderated Q&A**

5:26 **Closing Summaries**

Session 18

5:45 – 6:45 PM

The 2023 Excellence Award for Hypertension Research Lecture

Grand Ballroom

5:45 **The Renin-Angiotensin System: From Adipocytes to Aneurysms**
Lisa A. Cassis, PhD

7:30 – 10:30 PM

The Annual Hypertension Scientific Session Awards Banquet

Constitution Ballroom

(Ticketed Event)

Sunday, September 10, 2023

Session 19

7:30 – 9:30 AM

Oral Abstract Sessions

Concurrent 19A

The Heterogenous Nature of Renin Cells and Their Role in Homeostasis

Grand Ballroom

Moderators: Maria Luisa S. Sequeira-Lopez, MD, FAHA and Michael Bader, PhD, FAHA

- 7:30 **Special Lecture: Heterogeneity of RAS Regulatory Mechanisms in the Brain**
Curt D. Sigmund, PhD, FAHA
98
- 8:00 **Collecting Duct-derived (pro)renin Receptor Contributes To 2-kidney, 1-clip-induced Renovascular Hypertension And Ischemic Nephropathy In Mice**
Ziwei Fu, Kannaree Kaewsaro, Jacob Andrew Hamby, Alex Kimball, Tianxin Yang, Univ of Utah and Veterans Affairs Medical Ctr, Salt Lake City, UT
99
- 8:15 **Akr1b7^{CreERT2} Mice, A New Time And Renin Cell-specific Cre Inducible Model**
Silvia Medrano, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Minghong Li, UVA, Charlottesville, VA; Xiuyin Liang, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Maria Luisa S Sequeira Lopez, UNIVERSITY VIRGINIA, Charlottesville, VA; Roberto A Gomez, UNIVERSITY OF VIRGINIA, Charlottesville, VA
100
- 8:30 **Activation Of The Skin Renin-angiotensin System Contributes To The Development Of Hypertension**
Shinya Taguchi, Kengo Azushima, Yokohama City Univ, Yokohama, Japan; Kento Kitada, Kagawa Univ, Kagawa, Japan; Norihiko Morisawa, Jikei Univ Sch of Med, Tokyo, Japan; Hiromichi Wakui, Yokohama City Univ, Yokohama, Japan; Akira Nishiyama, Kagawa Univ, Kagawa, Japan; Kouichi Tamura, Yokohama City Univ, Yokohama, Japan
101
- 8:45 **Similar Cd28-Delta T Effector Memory Cell Subpopulations Are Present In Murine Perivascular Tissues Of Angiotensin II-infused Male Mice And Subcutaneous White Adipose Tissue Of Obese Women**
Pierre Paradis, Olga Berillo, Kevin Comeau, Antoine Caillon, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Séverine Leclerc, Res Ctr, Sainte-Justine Univ Health Ctr, Montreal, QC, Canada; Brandon Shokoples, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Ahmad Mahmoud, Lady Davis Inst, Montreal, QC, Canada; Gregor Andelfinger, Univ of Montreal, Montreal, QC, Canada; Ernesto L Schiffrin, SMBD JEWISH GENERAL HOSP, Montreal, QC, Canada
102
- 9:00 **Targeted Disruption Of Ctf Binding Near The Ren Gene Alters Local Gene Expression In Response To Dietary Salt**
Mark Vanden Avond, The Medical Coll of Wisconsin, Milwaukee, WI; Michael Grzybowski, Terry Kurth, Milwaukee, WI; Andrew Greene, Mingyu Liang, New Berlin, WI; Allen Cowley, Medical Coll of Wisconsin; Aron M Geurts, Medical Coll of Wisconsin, Milwaukee, WI
103
- 9:15 **Combined Dapagliflozine And Eplerenone Treatment Improve Cardiorenal Function In Rats With Chronic Kidney Disease.**
Matthieu SOULIE, Durand Manon, INSERM U1138, Paris, France; Yohan STEPHAN, Rouen, France; Ixchel Quetzalitzli Lima Posada, INSERM, UMRS 1138, PARIS, France; Roberto Palacios-Ramirez Sr., INSERM U1138, Paris, France; Natalia Lopez-Andres, Navarra (UPNA), Pamplona, Spain; paul Mulder, INSERM U1096, Rouen, France; Frederic Jaisser, INSERM DR6, Paris, France

Concurrent 19B

Aging and Cognition

Constitution Ballroom A

Moderators: Vinicia Campana Biancardi, MSc, PhD, FAHA and Amy C Arnold, PhD, FAHA

- 104
- 7:30 **Assessment Of Brain Venous System In Hypertension**
Lidia Glodzik, Adrienne Biskaduros, Tracy Butler, Yi Li, Gloria Chiang, Emily Tanzi, Patrick Harvey, Mony de Leon, Weill Cornell Med, New York, NY
105

- 7:45 **Potential Effect Modifiers In The Relationship Between Late-life Systolic Blood Pressure And Alzheimer's Neuropathology**
Wenjie Cai, Yuan Ma, Deborah Blacker, Julia Neitzel, Harvard T.H.Chan Sch of Public Health, Boston, MA
106
- 8:00 **Vascular Dysfunction In The Mesenteric Resistance Arteries Occurs Prior To The Occurrence Of Early-onset Alzheimer'S Disease In A Sex-dependent Manner**
Emily W Waigi, Laena Pernomian, Paul Townsend Jr., Emily W. Wilson, McQuail JA., Hollis F., Cameron G. McCarthy, Camilla F. Wenceslau, Univ of South Carolina, Columbia, SC
107
- 8:15 **Longitudinal Associations Of Dietary Fructose And Psychological Stress With Vascular Aging Index And Incident Cardiovascular Disease Among Us Black And White Adults In The CARDIA Study**
Meaghan Osborne, Alexa Bernard, Emily Falkowski, Deni Peterson, Anusha Vavilikolanu, Dragana Komnenov, Wayne State Univ, Sch of Med, Detroit, MI
108
- 8:30 **Rejuvenation Potential Of Extracellular Vesicles From Renal Distal Tubular Cells - A Promising Strategy To Prevent Aging-associated Hypertension And Renal Function Impairment**
Lynn-Htet-Htet Aung, Univ of Tennessee HSC, Memphis, TN; Zhongjie Sun, UNIVERSITY OF TENNESSEE HSC, Memphis, TN
109
- 8:45 **Geriatric Unhoused Patients Presenting To A Free Clinic In Miami- Dade Had Significantly Higher Rates Of Stage 1 And 2 Hypertension And Are At Significantly Increased Risk For Untreated Hypertension Compared To Age- Matched General Population**
Orly Morgan, Suhas Seshadri, Alana Moore, Daniel Bergholz, Armen Henderson, Joshua Laban, Univ of Miami Miller Sch of Med, Miami, FL
110
- 9:00 **Age-Dependent Hypertension-Induced Cognitive Impairment: Can We Prevent It?** Kayla Nist, Boston Univ Sch of Med, Boston, MA; Richard D Wainford, BOSTON UNIV SCHOOL MEDICINE, Charlestown, MA
111
- 9:15 **Accelerated Biological Aging As An Early Pregnancy Predictor Of Preeclampsia**
Cindy M. Anderson, Shannon Gillespie, John Lesniak, Joshua Joseph, Shili Lin, The Ohio State Univ, Columbus, OH

Concurrent 19C

Insight From the Late Breaking Clinical Trials

Constitution Ballroom B

Moderators: Jan Basile, MD, FAHA, FACP and Wanpen Vongpatanasin, MD, FAHA

- 112
- 7:30 **Effects Of Intensive Blood Pressure Treatment On Orthostatic Hypertension: An Individual-level Meta-analysis**
Stephen P Juraschek, BIDMC-Harvard Medical Sch, Boston, MA; Jiun-Ruey Hu, New Haven, CT; Jennifer Cluett, BIDMC-Harvard Medical Sch, Boston, MA; Carol Mita, Countway Library of Med, Boston, MA; Lewis Lipsitz, HEBREW REHAB-IFAR, Roslindale, MA; Lawrence J Appel, JOHNS HOPKINS UNIVERSITY, Baltimore, MD; Nigel Beckett, Imperial Coll, London; Barry R Davis, Univ of Texas Sch Pub Hlth, Sugar Land, TX; Rury Holman, Univ of Oxford, Oxford, Ukraine; Edgar R Miller II, JOHNS HOPKINS MEDICAL INSTITUTIONS, Baltimore, MD; Ken J Mukamal, BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, MA; Ruth Peters, Imperial Coll; Jan A Staessen, Res Inst APPREMED, Mechelen, Belgium; Addison A Taylor, BAYLOR COLLEGE OF MEDICINE, Houston, TX; Jackson T Wright Jr., CASE WESTERN RESERVE UNIV, Cleveland, OH; William C Cushman, Univ of Tennessee Health Scie, Memphis, TN
113
- 7:45 **Aldosterone Synthase Inhibition With Lorundrostat For The Treatment Of Uncontrolled Hypertension: The Target-HTN Randomized Clinical Trial**
Luke J Laffin, Cleveland Clinic Fndn, Cleveland, OH; David Rodman, Acton, MA; James M Luther, VANDERBILT UNIV MED CTR, Nashville, TN; Anand Vaidya, Brigham and Womens Hosp, Harva, Boston,

MA; Matthew R Weir, UNIVERSITY MARYLAND SCHOOL MED, Lutherville, MD; Steven E Nissen, CLEVELAND CLINIC FOUNDATION, Cleveland, OH

114

8:00 **Effect Of Dose Of Chlorthalidone And Hydrochlorothiazide Dosing On Cardiovascular Outcomes In The Diuretic Comparison Project (DCP)**

Cynthia Hau, VA Boston Healthcare system, Boston, MA; AREEF Ishani, Minneapolis VA Health Care System, Minneapolis, MN; Peter Glassman, Minneapolis VA Health Care System, Minneapolis, MN, Los Angeles, CA; Addison A. Taylor, Michael E. DeBakey VA Medical Ctr, Houston, TX; Ryan Ferguson, Michael E. DeBakey VA Medical Ctr, Houston, TX, Boston, MA; Sarah Leatherman, Michael E. DeBakey VA Medical Ctr, Houston, TX, Boston, MA, Boston, MA; **William C Cushman**, Univ of Tennessee Health Scie, Memphis, TN

115

8:15 **An Action Plan To Improve Biochemically Detected Non-adherence To Antihypertensive Treatment Results In A Short-term Reduction In Arterial Stiffness And A Long-term Reduction In Albuminuria (the ATHAN Clinical Trial)**

Anna Oliveras, Susana Vázquez, Carme Camps, Laia Fontdevila, Hosp del Mar, Barcelona, Spain; Francisco J Illana, Hosp de la Santa Creu i Sant Pau, Barcelona, Spain; Isabel Galceran, Hosp del Mar, Barcelona, Spain; Laura Andolza, Farmalan, Barcelona, Spain; Ernest Vinyoles, CAP La Mina, Sant Adria de Besos; Juanjo Hernandez, Laboratori de Referencia de Catalun, El Prat de Llobregat; Marta Crespo, Hosp del Mar, Barcelona, Spain

116

8:30 **Safety And Tolerability Of Zilebesiran, An RNA Interference Therapeutic Targeting Hepatic Angiotensinogen Synthesis, In Obese Patients With Hypertension**

Jorg Taubel, Richmond Pharmacology and St. George's Univ of London, London, United Kingdom; Akshay S Desai, Brigham & Women's Hosp, Boston, MA; Maxwell Lasko, Tiffany Zee, Daniel Stiglitz, Sean Rhyee, Dion H. Zappe, Alnylam Pharmaceuticals, Cambridge, MA; George L Bakris, Univ of Chicago Med, Chicago, IL

117

8:45 **The Impact Of De-escalating Antihypertensive Drugs: A Secondary Analysis Of The Systolic Blood Pressure Intervention Trial (sprint)**

Fanxing Du, Steven Smith, Univ of Florida, Gainesville, FL; Adam P Bress, UNIVERSITY OF UTAH, Salt Lake City, UT; **Tianze Jiao**, Univ of Florida, Gainesville, FL

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9:00 **Effects Of Aprocintan, A Dual Endothelin Receptor Antagonist, On Blood Pressure In Black/African American Patients With Resistant Hypertension: Results From A Randomized, Controlled Study (PRECISION) Including A Withdrawal Phase**

John M. Flack, Southern Illinois Univ Sch of Med, Springfield, IL; Markus Schlaich, Univ of Western Australia, Perth, Australia; Michael Weber, State Univ of New York, Brooklyn, NY; George Bakris, Univ of Chicago Med, Chicago, IL; Wentao Lu, Janssen Res & Development, LLC, Raritan, NJ; Mouna Sassi-Sayadi, Idorsia Pharmaceuticals Ltd, Allschwil, Switzerland; Lloyd Haskell, Janssen Res & Development, LLC, Raritan, NJ; Krzysztof Narkiewicz, Medical Univ of Gdańsk, Gdańsk, Poland; Roland F. Dreier, Idorsia Pharmaceuticals Ltd, Allschwil, Switzerland; Ji-Guang Wang, Jiaotong Univ Sch of Med, Shanghai, China

Session 19D

7:30 – 9:30 AM

Primary Care

19.D.1

7:30- 8:30

Case-Based Learning: Special Populations

Independence Ballroom

Moderators: Sandra J. Taler MD, FAHA and Andrew M. South, MD, MS

7:30 **Obesity and Hypertension in Adolescents**

Joseph T Flynn, MD, MS

7:45 **Postpartum Patient With Elevated BP & History of Eclampsia: Ongoing Care Considerations**

Alisse Hauspurg, MD, MS

8:00 **The Case of the Older Patient with Hypertension and Dementia**
Lewis Lipsitz, MD

8:15 **Panel Discussion**

19.D.2

8:30- 9:30

Self-Monitored Blood Pressure and Innovations in Digital Health
Independence Ballroom

Moderator: Ruth-Alma Turkson-Ocran, PhD, MPH, APRN, FNP-BC, CNE

8:30 **How to Manage, Interpret, Monitor, and Treat Out-of-Office Blood Pressure**
Beverly B Green MD, MPH

8:40 **Cuffless Blood Pressure Devices: Promises and Controversies**
Tim Plante, MD MHS

8:50 **Implementing a SMBP Program at Your Institutions: Practical Considerations**
Debra McGrath, MSN, FNP

9:00 **mHealth Interventions for Hypertension Control: Which Ingredients Work?**
Richelle J. Koopman, MD, MS, FAAFP

9:10 **Panel Discussion**

9:30 – 10:00 AM

Coffee Break

Session 20

10:00 – 11:30 AM

Oral Abstract Sessions

Concurrent 20A

Vascular Biology

Grand Ballroom

Moderators: Cristina Espinosa-Diez, PhD and Camilla Ferreira Wenceslau, PhD, FAHA

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10:00 **Exploring The Role Of Rho-related BTB Domain Containing 1(RhoBTB1) And Phosphodiesterase 5(PDE5) To Identify Potential Proteomic Targets In Cardiovascular Function**

Gaurav Kumar, Daria Golosova, Medical Coll of Wisconsin, Milwaukee, WI; Ko-Ting Lu, Wauwatosa, WI; Daniel T Brozoski, Ibrahim Vazirabad, Curt D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI

120

10:15 **Greater 24-hour Blood Pressure Variability Is Associated With Higher Retinal Microvascular Resistance And Smaller Lumen Diameter In Healthy Normotensive Adults**

Colin Gimblet, Jackson Ernst, Univ of Iowa, Iowa City, IA; Seth Holwerda, Univ of Kansas Medical Ctr, Kansas City, KS; Randy Kardon, Ryuya Hashimoto, Univ of Iowa, Iowa City, IA; Lyndsey E Dubose, Denver, CO; Jess Fiedorowicz, Univ of Ottawa, Ottawa, ON, Canada; Gary L Pierce, Univ of Iowa, Iowa City, IA

121

10:30 **A Cell Atlas Of The Dahl SS Thoracic Aortic Perivascular Adipose Tissue: Delving Into Single-Cell Data**

Leah Terrian, Janice Thompson, Andres Contreras, Cheryl Rockwell, Stephanie W Watts, Sudin Bhattacharya, Rance Nault, Michigan State Univ, East Lansing, MI

122

10:45 **Cerebral Artery Function And Stiffness Is Dependent On Apoe Genotype And Ovariectomy Status In Mice**

Mackenzie N Kehmeier, Audrey T Cannon, Univ of Oregon, Springfield, OR; Aleena Khurana, Univ of Oregon, Oregon, OR; Abigail Cullen, Univ of Oregon, Eugene, OR; Nabil J Alkayed, OREGON HEALTH and SCIENCE UNIVERSITY, Portland, OR; Ashley E Walker, Univ of Oregon, Eugene, OR

123

11:00 Partial Endothelial Cell In Vivo Reprogramming Reverses The Hypercontractility To Phenylephrine In Resistance Arteries Isolated From Males But Not From Females BPH/2J Hypertensive Mice

Laena Pernomian, Univ of South Carolina, Sch of Med, Columbia, SC; Emily W Waigi, Univ of South Carolina, Columbia, SC; Paul Townsend Jr, Univ of South Carolina, Sch of Med, Columbia, SC; Emily W Wilson, Univ of South Carolina, Sch of Med, South Carolina, SC; Sujit Pujhari, Univ of South Carolina, Sch of Med, Columbia, SC; Cam McCarthy, Univ of South Carolina, Columbia, SC; Camilla F Wenceslau, Univ Of South Carolina, Columbia, SC

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11:15 Renin Cell Identity And Blood Pressure Homeostasis: Exploring The Role Of Endothelial Cell Cross-talk

Vidya K Nagalakshmi, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Jason Paul Smith, Univ of Virginia, Charlottesville, VA; Minghong Li, UVA, Charlottesville, VA; Hirofumi Watanabe, Niigata Univ Graduate Sch of Medical Sciences, Niigata, Japan; Silvia Medrano, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Roberto Ariel Gomez, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Maria Sequeira Lopez, Univ of Virginia, Charlottesville, VA

Concurrent 20B

Fatty Acids, Salt Handling and Obesity

Constitution Ballroom A

Moderators:

Daniela Carnevale, PhD, FAHA and Tatsuo Shimosawa, MD, PhD, FAHA

125

10:00 Elevated Bacterial Fatty Acid Metabolism And Fecal Calorific Values Are Associated With Reduced Diet-induced Adiposity And Weight Gain In Mice

Adriana Alviter Plata, Univ of Toledo, Toledo, OH; Chris Martyniuk, Univ of Florida, Gainesville, FL; Jennifer Gadiant, Jasenka Zubcevic, Univ of Toledo, Toledo, OH

126

10:15 Nlrp3 Chromatin Availability And Isolg-adducted Histones In Salt-sensitivity Of Blood Pressure

Ashley Pitzer Mutchler, Vanderbilt Univ Medical Ctr, Nashville, TN; Lale Ertuglu, Nashville, TN; Sydney Jamison, Meharry Medical Coll, Nashville, TN; Cheryl L Laffer, Annet Kirabo, VANDERBILT U SCHOOL of MEDICINE, Nashville, TN

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10:30 Time Restricted Feeding In Diet Induced Obesity Reduces Kidney Cd8+T Cells

Claudia Edell, Univ of Alabama at Birmingham, Birmingham, AL; Jackson Colson, UAB, Birmingham, AL; Paramita Pati, Univ of Alabama Birmingham, Birmingham, AL; David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL; Carmen De Miguel, Univ of Alabama at Birmingham, Birmingham, AL; Jennifer Pollock, Univ of Alabama at Birmingham, Birmingham, AL

128

10:45 Saline Load Induces Acute Changes In Ventricular Extracellular Volume And Mass

Domenico Bagordo, Giulio Cabrelle, Filippo Crimi, Giona Nervo, Luisa Ruzza, Giovanni Bertoldi, Teresa M Seccia, Alessia Pepe, Gian Paolo Rossi, Giacomo Rossitto, DIMED - Padua Univ, Padua, Italy

129

11:00 Ngal Is A Novel Target In Hypertension By Modulating The Ncc-mediated Renal Na Balance

Frederic Jaisser, INSERM DR6, Paris, France; Benjamin Bonnard, Bordeaux, France; Tatsuo Shimosawa, IUHW, Narita Chiba, Japan; Constance Xhaard, Ctr d'Investigation Clinique 1433-CHRU Nancy - Hopitaux de Brabois, Nancy, France; patrick rossignol, Ctr hospitalier Princesse Grace de Monaco, Monaco, Monaco

130

11:15 Impact Of O-GlcNAcylation On Elastin Fragmentation In Aorta Of Aged Male And Female Fisher344 Rats

Tiago Januario Da Costa, Ian Montandon, South Carolina Sch of Med, Columbia, SC; Emily Wilson, Univ of South Carolina SOM, Columbia, SC; Milene Tavares, Univ of South Carolina, Columbia, SC; Laena Pernomian, South Carolina Sch of Med, Columbia, SC; Joseph McQuail, South Carolina Sch of Med, Columbia, SC, Columbia, SC; R Clinton Clinton Webb, UNIVERSITY OF SOUTH CAROLINA, Columbia, SC; Camilla F Wenceslau, Univ Of South Carolina, Columbia, SC; Cam McCarthy, Univ of South Carolina, Columbia, SC

Concurrent 20C

Proteomics, Genetics and Genomics in Hypertension

Constitution Ballroom B

Moderators: Aron Geurts, PhD and Jason P. Smith, PhD

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10:00 **Phosphoproteomics Analysis Reveals That Angiotensin-(1-5) Inhibits MTOR Signalling Pathway In Endothelial Cells**
Igor Maciel Souza-Silva, Univ of Southern Denmark, Odense, Denmark; Augusto Peluso, Univ of Copenhagen, Copenhagen; Lucas Ribeiro, Federal Univ of Minas Gerais, Belo Horizonte, Brazil; Andre Rodrigues, Max Delbrück Ctr, Berlin, Germany; Lene Jakobsen, Pia Jensen, Univ of Southern Denmark, Odense, Denmark; Colin Summers, Univ of Florida, Gainesville, FL; Michael Bader, Max Delbrück Ctr, Berlin, Germany; Martin Larsen, Univ of Southern Denmark, Odense; Thiago Verano-Braga, Federal Univ of Minas Gerais, Belo Horizonte, Brazil; Ulrike Muscha Muscha Steckelings, Univ of Southern Denmark, Odense C, Denmark
- 132
10:15 **Proteomic Profiles Of Human Arterioles Isolated From Fresh Adipose Tissue Or Following Overnight Storage**
Rajan Pandey, Michelle L. Roberts, Jingli Wang, Michaela Pereckas, David Jensen, Medical Coll of Wisconsin, Milwaukee, WI; Andrew S. Greene, The Jackson Lab, Bar Harbor, ME; Michael E Widlansky, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- 133
10:30 **Urine Derived Human Renal Proximal Tubule Cells Isolated From Inverse Salt Sensitive Participants Have Higher C-src Kinase Activity And Aminopeptidase N Expression**
John J Gildea, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Peng Xu, Robin Felder, UNIVERSITY OF VIRGINIA, Charlottesville, VA
- 134
10:45 **Role Of Epigenetic Mechanisms Regulating Renal Pathology And Disorders In Global Npr1 Gene-targeted Mutant Mice In Sex-dependent Manner**
Prerna Kumar, Kandasamy Neelamegam, Tulane Univ Health Sciences Ctr, New Orleans, LA; Chandramohan Ramasamy, Tulane Univ Health Sciences Ctr, New Orleans,, LA; Kailash N Pandey, Tulane Univ Health Sciences Ctr, New Orleans, LA
- 135
11:00 **The Noncoding Haplotype Region Of Blood Pressure-associated Single Nucleotide Polymorphism Rs1173771 Regulates The Expression Of Natriuretic Peptide Receptor C**
Manoj K Mishra, Yong Liu, Pengyuan Liu, Rajan Pandey, Bhavika Therani, Michael Grzybowski, Medical Coll of Wisconsin, Milwaukee, WI; Andrew S. Greene, The Jackson Lab, Bar Harbor, ME; Sridhar Rao, Versiti Blood Res Inst, Milwaukee, WI; Allen W. Cowley Jr., Aron M. Geurts, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- 136
11:15 **Unsupervised Learning Using EHR Data To Detect Distinct Subphenotypes Of Hypertension**
Steven M Smith, Jie Xu, UNIVERSITY OF FLORIDA, Gainesville, FL; Jaclyn Hall, Univ of Florida, Gainesville, FL; Marta G Walsh, Hee Deok Cho, Grant Harrell, Stephanie A Staras, UNIVERSITY OF FLORIDA, Gainesville, FL

Concurrent 20D

Innovative Technology and Strategies in Hypertension Management and Rising Star Lecture

Independence Ballroom

Moderators: Stephen P Juraschek, MD, PhD, FAHA and Tammy M. Brady, MD, PhD

10:00 **Rising Star Lecture: Data-Driven Antihypertensive Medication Prescribing**

Jordana Cohen, MD, MSCE

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- 10:30 **Trends In Primary Aldosteronism Screening - An Underutilized Test In Hypertension**
Weerapat Kositanurit, Chulalongkorn Univ, Bangkok, Thailand; John M Giacona, Donglu Xie, UT Southwestern Medical Ctr, Dallas, TX; Natalie Hoeting, Irving, TX; Ann Marie Navar, UT Southwestern Medical Ctr, Dallas, TX; Wanpen Vongpatanasin, UNIVERSITY TX SOUTHWESTERN MED, Dallas, TX
- 138
- 10:45 **Treatment Initiation During The First Month Following Hypertension Diagnosis Improves Blood Pressure Control Up To 30 Months**
Robert B Barrett, American Medical Association, Greenville, SC; Benjamin Riesser, Ben Martin, Susan E. Sutherland, American Medical Association, Greenville, SC; Michael Rakotz, CHICAGO, IL; Neha Sachdev, CHICAGO, IL, Chicago, IL; Brent M Egan, American Medical Association, Greenville, SC
- 139
- 11:00 **Hypertension Control In The Afro-dpp Program, A Virtual Cardiometabolic Health Intervention Among African Immigrants**
Oluwabunmi V Ogungbe, Johns Hopkins Univ, Baltimore, MD; Ruth-Alma Turkson-Ocran, BIDMC-Harvard Medical Sch, Boston, MA; THOMAS HINNEH, Loretta Owusu, Johns Hopkins Univ, Baltimore, MD; Erin Spaulding, Jasmine Mensah, Baltimore, MD; Serina Gbaba, Aminata Sinyan, Johns Hopkins Univ, Baltimore, MD; Adeline Assani-Uva, Yvonne Commodore-Mensah, Elkridge, MD
- 140
- 11:15 **Implementation Of The World Health Organization Hearts Package Lowers Blood Pressure And Improves Hypertension Control In Rural Bangladesh: A Quasi Experimental Trial**
Ahmad Abrar, Jubaida Akhtar, Natl Heart Fndn Hosp and Res Inst, Dhaka, Bangladesh; Xiao Hu, JOHNS HOPKINS UNIVERSITY, Baltimore, MD; Shamim Jubayer, Mohammad Noor Nabi Sayem, Sarmin Sultana, Mohammad Abdullah Al Mamun, Mahfuzur Rahman Bhuiyan, Fazila-tun-nesa Malik, Natl Heart Fndn Hosp and Res Inst, Dhaka, Bangladesh; Mohammad Robed Amin, Abdul Alim, Non communicable Diseases Control Program, Directorate General of Health Services, Dhaka, Bangladesh; Reena Gupta, UNIVERSITY OF CALIFORNIA SAN FRANCISCO, San Francisco, CA; Di Zhao, Johns Hopkins Univ, Baltimore, MD; Margaret Farrell, Resolve To Save Lives, New York, NY; Kuni Matsushita, JOHNS HOPKINS UNIVERSITY, Baltimore, MD; Daniel Burka, Resolve To Save Lives, London, United Kingdom; **Lawrence J Appel**, JOHNS HOPKINS UNIVERSITY, Baltimore, MD; Andrew E. Moran, Resolve To Save Lives, New York, NY; Sohel Reza Choudhury, Natl Heart Fndn Hosp and Res Inst, Dhaka, Bangladesh

11:30 AM

Meeting Adjourns