



# Hypertension 2022

## Poster Sessions

*All Poster Session take place in Sapphire AEIM*

<b>Poster Session 1</b> <b>Wednesday, September 7</b> <b>5:30- 7:00 PM</b>		
Session Title	Session Number	Poster Board Numbers
TAC Poster Session Competition <i>(Session includes posters in all categories. Posters are placed in the hall in topical order)</i>	<a href="#">PS.01.01</a>	001-142
<b>Poster Session 2</b> <b>Thursday, September 8</b> <b>1:30 – 3:00 PM</b>		
Antihypertensive Drugs and Pharmacology	<a href="#">PS.02.01</a>	200-204
Blood Pressure Monitoring 1	<a href="#">PS.02.02</a>	205-210
BP Control and Adherence to Treatment 1	<a href="#">PS.02.03</a>	211-215
Cerebrovascular Disease and Stroke	<a href="#">PS.02.04</a>	216-219
Clinical Trials in Hypertension and Related Morbidities	<a href="#">PS.02.05</a>	220-223
Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome 1	<a href="#">PS.02.06</a>	224-227 and P037
Hypertension and Aging 1	<a href="#">PS.02.07</a>	228-231
Neurogenic Mechanisms 1	<a href="#">PS.02.08</a>	232-235
		236-239
Oxidative Stress, Inflammation, Immunity and Cytokines 1	<a href="#">PS.02.09</a>	257, 258
Patient-Provider-Healthcare System Issues	<a href="#">PS.02.10</a>	240-243
Renal Hemodynamics, Tubular Transport, Salt, Renovascular Hypertension	<a href="#">PS.02.11</a>	244-247
Gender Differences and Sex Hormones	<a href="#">PS.02.12</a>	248-250
Renin-Angiotensin System	<a href="#">PS.02.13</a>	251-252
SARs-CoV-2/COVID19	<a href="#">PS.02.14</a>	253-256
<b>Poster Session 3</b> <b>Friday, September 9</b> <b>1:30 – 3:00 PM</b>		
Blood Pressure Monitoring 2	<a href="#">PS.03.01</a>	300-305
BP Control and Adherence to Treatment 2	<a href="#">PS.03.02</a>	306-311
Cardiac Hypertrophy and Dysfunction	<a href="#">PS.03.03</a>	312-316
Genetics, Epigenetics and Epidemiology	<a href="#">PS.03.04</a>	317-322
Chronic Kidney Disease, Nitric Oxide Endothelin and Other Endothelial Factors	<a href="#">PS.03.05</a>	323-326
Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome 2	<a href="#">PS.03.06</a>	327-330

Hypertension and Aging- 2	<a href="#">PS.03.07</a>	331-335
Neurogenic Mechanisms 2	<a href="#">PS.03.08</a>	336-339
Non-Pharmacological Therapy (Alternative Medicine; Diet; Physical Activity)	<a href="#">PS.03.09</a>	340-342
Oxidative Stress, Inflammation, Immunity and Cytokines 2	<a href="#">PS.03.10</a>	343-345
Pregnancy, Preeclampsia and Developmental Programming	<a href="#">PS.03.11</a>	346-350
Resistant Hypertension	<a href="#">PS.03.12</a>	351-353
Vascular Biology, Remodeling, Dysfunction, Stiffness	<a href="#">PS.03.13</a>	354-356

## Poster Session 1

### PS.01.01 TAC Poster Session Competition and Reception

- P001 Repurposing A Drug Targeting Inflammatory Bowel Disease For Lowering Hypertension**  
**Xue Mei**, The Univ of Toledo, Toledo, OH; Blair Mell, Univ of Toledo, Toledo, OH; Ishan Manandhar, THE UNIVERSITY OF TOLEDO, Toledo, OH; Sachin Aryal, Univ of Toledo, Toledo, OH; Ramakumar Tummala, The Univ of Toledo, Toledo, OH; Jun Kyoung, The Univ of Toledo, Toledo, OH, Toledo, OH; Tao Yang, Univ of Toledo, Toledo, OH; Bina Joe, Univ of Toledo HSC, Toledo, OH
- P002 Mechanism Of Mesenteric Artery Vasodilation And Blood Pressure Regulation By Statins** Farzana Zerin, Mercer Univ, Atlanta, GA; Ahasanul Hasan, Mercer UnUniv, Atlanta, GA; **Raquibul Hasan**, Mercer Univ, Atlanta, GA
- P003 Chemerin Supports Basal Blood Pressure In Both Male And Female Dahl SS Rats**  
**Emma A Wabel**, Alexis Orr, Emma Darios Flood, Janice Thompson, Hannah Garver, Michigan State Univ, East Lansing, MI; Adam E Mullick, Ionis Pharmaceuticals, Inc., Carlsbad, CA; Gregory D Fink, Stephanie W Watts, Michigan State Univ, East Lansing, MI
- P004 Chronic Nebivolol And Metoprolol Treatment Reduce Circulating Endothelial Cell-Derived Microvesicles In Adults With Hypertension**  
**Hannah K. Fandl**, Univ of Colorado, Boulder, CO; Christian S. DeSouza, The Univ of Texas Health Science Ctr at Houston, Austin, TX; Vinicius P. Garcia, Jared J. Greiner, Univ of Colorado, Boulder, CO; Brian L. Stauffer, Univ of Colorado Anschutz Medical Campus, Denver, CO; Christopher A. Desouza, Univ of Colorado, Boulder, CO
- P005 Treatment And Clinical Implications Of Vascular Endothelial Growth Factor (VEGF) Inhibitor-induced Blood Pressure Rise: A Clinical Cohort Study**  
**Daan C Van Dorst**, Sumeyye Kabadayi, Esther Oomen-de Hoop, Erasmus MC, Rotterdam, Netherlands; Jan H Danser, ERASMUS MC, Rotterdam; Ron Mathijssen, ERASMUS MC, Rotterdam, Rotterdam; Jorie Versmissen, ERASMUSMEDICAL CENTRE, Rotterdam
- P006 Systematic Identification Of Metabolites Associated With Manp, A Novel Anp Analog, In Human Hypertension With Metabolic Syndrome**  
**Xiao Ma**, Yue Yu, Jeson Sangaralingham, Mayo Clinic, Rochester, MN; Horng Chen, MAYO CLINIC, Rochester, MN; Valentina Cannone, John Burnett Jr., Mayo Clinic, Rochester, MN
- P007 Timing Of Orthostatic Hypotension And Its Relationship With Falls In Older Adults** **Aldis H. Petriceks**, Harvard Medical Sch, Boston, MA; Lawrence J Appel, JOHNS HOPKINS UNIVERSITY, Baltimore, MD; Edgar R Miller III, JOHNS HOPKINS MEDICAL INSTITUTIONS, Baltimore, MD; Christine Mitchell, Johns Hopkins Medical Inst, Baltimore, MD; Jennifer Schrack, Johns Hopkins Univ, Baltimore, MD; Ken J

Mukamal, BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, MA; Lewis Lipsitz, HEBREW REHAB-IFAR, Roslindale, MA; Amal Wanigatunga, Johns Hopkins Univ, Baltimore, MD; Tim B Plante, Univ of Vermont, Colchester, VT; Erin D Michos, Johns Hopkins Sch of Med, Baltimore, MD; Yurun Cai, Univ of Pittsburgh, Pittsburgh, PA; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Auburndale, MA

- P008 Development And Implementation Of A Community-focused Blood Pressure Training Curriculum For Undergraduate Students**  
**Aayush Visaria**, Sneha Kandalgoankar, Kithmy Wickramasinghe, Rutgers Univ, New Brunswick, NJ; David Lo, Piscataway, NJ
- P009 Feasibility And Acceptability Of A Digitally-Based Blood Pressure Self-monitoring Program That Promotes Hypertension Self-management And Health Education Among Low-income Patients.**  
**Jacqueline Poblete**, Earl Felisme, Paloma Mohn, Jennifer Shea, Natalie Vawter, Adam Northrup, Jie Liu, Laura Rodriguez Res Inst, San Diego, CA; Tala Al-Rousan, Univ of California, San Diego, San Diego, CA; Job G Godino, Laura Rodriguez Res Inst, San Diego, CA
- P010 Performance Of Home Blood Pressure Monitors In The Clinical Setting**  
**Medha Vyavahare**, Harvard Medical Sch, Boston, MA; Jennifer Cluett, BIDMC-Harvard Medical Sch, Boston, MA; Julia Wood, Beth Israel Deaconess Medical Cente, Brighton, MA; Ruth-Alma Turkson-Ocran, Beth Israel Deaconess Medical Ctr, Boston, MA; Ken J Mukamal, BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, MA; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Boston, MA
- P011 Usefulness Of Standing Office Blood Pressure In Detecting Hypertension In Untreated Adults**  
**John M Giacona**, UT Southwestern Medical Ctr, Dallas, TX; Ghazi Khan, UTSW, Dallas, TX; Jijia Wang, Danielle Pittman, UT Southwestern Medical Ctr, Dallas, TX; Scott A Smith, UT SOUTHWESTERN MEDICAL CENTER, Dallas, TX; Wanpen Vongpatanasin, UNIVERSITY TX SOUTHWESTERN MED, Dallas, TX
- P012 Agreement In Same Day Research-Quality And Casual Systolic Blood Pressure Measurements: Insights From BETTER-BP**  
**Samuel D Maidman**, Samrachana Adhikari, NYU Langone Health, New York, NY; Natalie Levy, New York, NY; Carson Lee, Kathleen Hanley, NYU Langone Health, New York, NY; Daichi Shimbo, COLUMBIA UNIVERSITY, New York, NY; Yasmin Gutierrez, Stefany de Brito, Kun Qian, NYU Langone Health, New York, NY; Anamarija Fonceva, John A Dodson, NYU SCHOOL MEDICINE, New York, NY
- P013 Hypertension Is Associated With High Risk Of Heart Failure Mortality**  
**Aqsa Iqbal**, Northeast Georgia Medical Ctr, Gainesville, GA; Sannie Sulley, Natl Healthy Start Association, Gainesville, GA; Ugochukwu Egolum, Northeast Georgia Medical Ctr, Gainesville, GA
- P014 A Pilot Study To Develop A Telehealth Program For Self-Measured Blood Pressure Education And Assessment Within A Veterans Affairs Clinic**  
Stephanie Betcher, **Michael Fayad**, Edward Hines Jr., VA Hosp, Chicago, IL; NINA GIUSTINO, Edward Hines Jr., VA Hosp, Maywood, IL; Holly Kramer, Loyola Univ Chicago, Maywood, IL; MEGHAN O'HALLORAN, Edward Hines Jr., VA Hosp, Maywood, IL
- P015 Characteristics And Care Of Inpatients With Orthostatic Hypotension**  
**Benjamin A Wagner**, Adam Strauss, Timothy Anderson, Stephen P Juraschek, Beth Israel Deaconess Medical Ctr, Boston, MA
- P016 Blood Pressure Measurements Obtained By Community-dwelling Adults Are Similar To Clinician-obtained Measurements: The SMART-BP Validate Study**  
**Xiaoyue Liu**, Yuling Chen, Sarah Slone, Yvette Yeboah-Kordieh, Abeer Alharthi, Johnitta Amihere, Sharon Moyo-Songonuga, Tynetta Lane, Johns Hopkins Univ, Baltimore, MD; Yechiam Ostchega, Ctrs for Disease Control and Prevention, Silver Spring, MD; Tammy M Brady, Cheryl D Himmelfarb, Yvonne Commodore-Mensah, Johns Hopkins Univ, Baltimore, MD

- P017 **Association Of Secondhand Smoke Exposure With Hypertension Among Non-smoking Stroke-free Africans**  
**Akinkunmi Okekunle**, Osahon Asowata, Onoja Akpa, Adekunle Fakunle, Univ of Ibadan, Ibadan, Nigeria; FRED S SARFO, KNUST, KUMASI, Ghana; Albert Akpalu, Korle Bu Teaching Hosp, Accra, Ghana; Reginald Obiako, Ahmadu Bello Univ Samaru, Sokoto, Nigeria; Kolawole Wahab, Univ of Ilorin Teaching Hosp, Ilorin, Nigeria; Godwin Osaigbovo, Jos Univ Teaching Hosp, Jos, Nigeria; Lukman Owolabi, Aminu Kano Teaching Hosp, Kano, Nigeria; Morenikeji Komolafe, Obafemi Awolowo Univ, Ile -Ife, Nigeria; Rufus Olusola Akinyemi, INSTITUTE FOR ADVANCED MEDICAL RESEARCH, UNIVERSITY OF IBADAN, Ibadan, Nigeria; Bruce Ovbiagele, Univ of California, San Francisco, CA; Mayowa Owolabi, UNIVERSITY OF IBADAN, Ibadan, Nigeria
- P018 **A Little Goes A Long Way: Improving Blood Pressure Control Through A Loaner BP Cuff Program**  
**Diana Norwich**, Clark Hatheway, Grace Chang, Ingeborg Schafhalter-Zoppoth, California Pacific Medical Ctr, San Francisco, CA
- P019 **Clinical Impact Of A 3 Versus 5-minute Delay On Automated Office Blood Pressure Measurement**  
**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; Timothy Anderson, Beth Israel Deaconess Medical Cente, Boston, MA; Ken J Mukamal, BETH ISRAEL DEACONESS MEDICAL CTR, Boston, MA; Marc L Cohen, Jonathan Li, Beth Israel Deaconess Medical Ctr, Boston, MA; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Boston, MA
- P021 **Degree Of Risk Factor Control And Incident Cardiovascular Diseases In Patients With Hypertension**  
**Minghao Kou**, TULANE UNIVERSITY, New Orleans, LA; Xuan Wang, New Orleans, LA; Hao Ma, Tulane university, Metairie, LA; Xiang Li, Tulane Univ, New Orleans, LA; Yoriko Heianza, Lu Qi, TULANE UNIVERSITY, New Orleans, LA
- P022 **The Geographic Variations In Hypertension Medication Adherence**  
**Samantha A Schoenl**, Syed A Hyder, Medical Coll of Georgia, Augusta, GA; Onoriode Kesiena, Piedmont Athens Regional, Athens, GA
- P023 **Risk Scoring Model For Predicting Hypertension Among Indigenous Africans: Findings From The SIREN Study**  
**Osahon Asowata**, Akinkunmi Okekunle, Onoja Akpa, Adekunle Fakunle, Univ of Ibadan, Ibadan, Nigeria; FRED S SARFO, KNUST, KUMASI, Ghana; Albert Akpalu, Korle Bu Teaching Hosp, Accra, Ghana; Reginald Obiako, Ahmadu Bello Univ Samaru, Sokoto; Kolawole Wahab, Univ of Ilorin Teaching Hosp, Ilorin, Nigeria; Godwin Osaigbovo, Jos Univ Teaching Hosp, Jos; Lukman Owolabi, Aminu Kano Teaching Hosp, Kano, Nigeria; Joshua Akinyemi, Univ of Ibadan, Ibadan, Nigeria; Morenikeji Komolafe, Obafemi Awolowo Univ, Ile -Ife; Rufus Olusola Akinyemi, INSTITUTE FOR ADVANCED MEDICAL RESEARCH, UNIVERSITY OF IBADAN, Ibadan, Nigeria; Bruce Ovbiagele, Univ of California, San Francisco, CA; Mayowa Owolabi, UNIVERSITY OF IBADAN, Ibadan
- P024 **Longer Acting Antihypertensives Improve Blood Pressure Control**  
**Brisha Bhikadiya**, Philadelphia Coll of Osteopathic Med, Philadelphia, PA; Nicole McManus, Erik Rahner, Philadelphia, PA; William Heppenstall, Hung Pham, Angad Bedi, Abington Jefferson Health, Abington, PA; Rahat Ahmed Memon, Brian Penza, Philadelphia Coll of Osteopathic Med, Philadelphia, PA
- P025 **Cite-seq And Predixcan 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 Ctr, Nashville, TN; Charles D Smart, Nashville, TN; Daniel J Fehrenbach, VUMC, Nashville, TN; Matthew Dungan, Doran Amanda C, VUMC, Nashville, TN, Nashville, TN; Megan M Shuey, Murfreesboro, TN; Meena S Madhur, VANDERBILT UNIVERSITY, Nashville, TN
- P026 **Cardio-and Reno-protective Effects Of Soluble Guanylyl Cyclase Stimulator *Vericiguat* In A Transgenic Rat Model Of Hypertension-induced Heart Failure**

**Sarah M. Kedziora**, MDC Berlin, Berlin, Germany; Peter Sandner, Bayer AG, Wuppertal; Hendrik Bartolomaeus, Moritz Wimmer, ECRC, Berlin; Kristin Kraeker, Charite - Univsmedizin, Berlin; Arne Thiele, CHARITE UNIVERSITÄTSMEDIZIN BERLIN, Berlin; Nicola Wilck, ECRC, Berlin; Ralf Dechend, Charite and Helios Clinic Berlin, Berlin; Dominik N Mueller, MAX DELBRUCK CTR, Berlin; Nadine Haase, EXPERIMENTAL AND CLINICAL RES CTR, Berlin

- P027 Yamaguchi Syndrome Presenting With Atrial Fibrillation And Heart Failure Diagnosed With Contrast Echocardiography**  
**Abdul-Fatawu Osman**, Shakeel Muhammad Jamal, Sandeep Banga, Zulfiqar Baloch, Ali Sheikh, Michigan State Univ - Sparrow Hosp, Lansing, MI
- P028 Ferrostatin-1 Ameliorates Cardiac Dysfunction In A Cardiomyocyte-Specific SIRTUIN 3 Knockout Mouse Model**  
**Aubrey C Cantrell**, Univ of Mississippi Medical Ctr, Jackson, MS; Heng Zeng, UNIVERSITY OF MISSISSIPPI MED CTR, Jackson, MS; Quinesha Williams, Univ of Mississippi Medical Ctr, Jackson, MS; Jian-Xiong X Chen, UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, MS
- P029 Variable Expression Of Integrin Subunits In The Male And Female Kidneys Suggests A Key Factor Responsible For The Higher Prevalence Of Chronic Kidney Diseases In Women** Delowar Hossain, Md Saimon Mia, North Dakota State Univ, Fargo, ND; Riya Jose Palamuttam, Vanderbilt Univ, Nashville, TN; Bony De Kumar, Yale Sch of Med, New Haven, CT; **Sijo Mathew**, North Dakota State Univ, Fargo, ND
- P030 Racial Difference In The Association Of Albuminuria With Blood Pressure: Analysis Of The National Health And Nutrition Examination Survey 2017 - 2020**  
**Ekamol Tantisattamo**, Div of Nephrology, Hypertension and Kidney Transplantation, Dept of Med, Univ of California Irvine Sch of Med, Orange, CA; Phuuwadith Wattanachayakul, Dept of Microbiology, Faculty of Med Siriraj Hosp, Mahidol Univ, Bangkok, Thailand; Chanattha Thimphitthaya, Bangkok Metropolitan Admin General Hosp, Bangkok, Thailand; Chawin Lopimpisuth, Pakin Lalitnithi, Faculty of Med, Chulalongkorn Univ and King Chulalongkorn Memorial Hosp, Bangkok, Thailand; Watsachon Pangkanon, Faculty of Med, Srinakharinwirot Univ, Bangkok, Thailand; Nattanicha Chaisrimaneepan, Inst of Dermatology, Ministry of Public Health, Bangkok, Thailand; Chalothorn Wannaphut, Dept of Med, Siriraj Piyamaharajkarun Hosp, Faculty of Med Siriraj Hosp, Mahidol Univ, Bangkok, Thailand; Piengpitch Naunsilp, Faculty of Med, Khon Kaen Univ, Khon Kaen, Thailand
- P031 Prevalence And Severity Of Chronic Kidney Disease In Haiti: Findings From A Population-based Cohort**  
**Nicholas L Roberts**, Weill Cornell Med, New York, NY; Lookens Pierre, GHESKIO, Port-au-Prince, Haiti; Lily D Yan, Miranda Metz, Weill Cornell Med, New York, NY; Eliezer Dade, Patrice Severe, Vanessa Rouzier, GHESKIO, Port-au-Prince, Haiti; Sri L Tummalapalli, Margaret McNairy, Weill Cornell Med, New York, NY
- P032 Body Position And The Effects Of Active Hypertension Treatment On Orthostatic Hypotension: Results From The SYS-EUR Trial**  
**Ben Grobman**, Harvard Medical Sch, Boston, MA; Ruth-Alma N Turkson-Ocran, Beth Israel Deaconess Medical Ctr, Boston, MA; Jan Staessen, Univ of Leuven, Leuven, Belgium; Yu-Ling Yu, KU Leuven, Leuven, Belgium; Ken J Mukamal, BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, MA; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Boston, MA
- P033 Effect Of Acetaminophen On Blood Pressure: A Systematic Review And Meta-analysis Of Randomized Controlled Trials**  
**Rahul Gupta**, Lehigh Valley Health Network, Allentown, PA; Amir Hossein Behnoush, Tehran Univ of Medical Sciences, Tehran, Iran, Islamic Republic of; David Egeler, Lehigh Valley Health Network, Allentown, PA; Wilbert S Aronow, NEW YORK MEDICAL COLLEGE, New Rochelle, NY
- P034 Increased Toll-Like Receptor 4 In Perirenal Adipose Tissue Is Associated With Elevated Systolic Blood Pressure In Obese Mice**  
**Marichelle Renee Pita**, New York Inst of Technology Coll of Osteopathic Med, Old Westbury, NY; Nicole Maddie, Maria Alicia Carrillo-Sepulveda, NYITCOM, Glen Head, NY

- P036 **The Association Of CD4:CD8 Ratio With Cardiometabolic Risk Factors In People With HIV**  
**Karla L Inestroza**, UM Jackson Memorial Hosp, Miami, FL; Vanessa Hurtado, Michaela Larson, Univ of Miami, Miami, FL; Ryan Severdija, miami, FL; Sanjana Satish, miami, FL, Miami, FL; Bertrand Ebner, Jackson Memorial Hosp, Miami, FL; Louis Vincent, Jackson Memorial Hosp, Miami, FL, Miami, FL; Jelani Grant, Univ Of Miami, Miami, FL; Alexis Powell, Univ of Miami, Miami, FL; Barry E Hurwitz, Catherine Boulanger, UNIVERSITY OF MIAMI, Miami, FL; Dushyantha Jayaweera, UNIVERSITY OF MIAMI, MIAMI, FL; Claudia Martinez, university of Miami, Miami Beach, FL
- P038 **Tissue-specific Regulation Of Ceramide *De Novo* Biosynthesis In Type 1 Diabetes. Role Of Metformin**  
**Onorina L. Manzo**, Linda Sasset, Weill Cornell Med, New York, NY; Luisa Rubinelli, WEILL CORNELL MEDICINE, New York, NY; Valentina Vellecco, Mariarosaria Bucci, Univ of Naples Federico II, Naples, Italy; Annarita Di Lorenzo, Weill Cornell Med, New York, NY
- P040 **Angiotensin II Type 1 Receptor Is Expressed In Agouti-related Peptide Neurons Of The Hypothalamic Arcuate Nucleus Within Adult Human Brain**  
**McKenzie L Ritter**, Kirthikaa Balapattabi, Allison K Lowman, Jennifer M Connelly, Dylan J Coss, Peter S LaViolette, Pablo Nakagawa, Curt D Sigmund, Lisa L Morselli, Justin L Grobe, Medical Coll of Wisconsin, Milwaukee, WI
- P041 **Spontaneous Coronary Artery Dissection In A Patient With Polycystic Ovary Syndrome** **Nway Nway**, One Brooklyn Health, Brooklyn, NY; Amita Arora, One Brooklyn Health, New York, NY; Myo Myint Tun, Arjun Mainali, Binit Aryal, Nabin KC, One Brooklyn Health, Brooklyn, NY; Victor Chen, NYITCOM, Elmhurst, NY; Alix Dufresne, One Brooklyn Health, Brooklyn, NY
- P042 **Effect Of *Saccharina Japonica* Intake On Blood Pressure And Gut Microbiota Composition In Hypertensive Rats**  
**Ayaka Harui**, Saki Maruyama, Kobe Women's Univ, Kobe, Japan; Yukiko Segawa, Osaka Seikei Coll, Osaka, Japan; Kanae Yamamoto, Kobe Women's Univ, Kobe, Japan; HIROKO HASHIMOTO, Osaka Seikei Coll, Osaka, Japan; Tomoko Osera, Toyo Univ, Itakura, Ora, Gunma, Japan; Nobutaka Kurihara, Kobe Women's Univ, Kobe, Japan
- P043 **Preeclampsia Superimposed On Chronic Hypertension: Evidence For A Hormone-mediated, Lasting Effect On Antihypertensive Needs**  
**Ashley Hesson**, Olesya Plazyo, Johann Gudjonsson, Elizabeth Langen, Santhi Ganesh, Univ of Michigan, Ann Arbor, MI
- P044 **Associations Between Depression And Hypertension Among Women And Men Veterans** **Tiffany E Chang**, Yale Sch of Public Health, New Haven, CT; Allison E Gaffey, Yale Sch of Med, Lyme, CT; Cynthia Brandt, Yale Sch of Public Health, New Haven, CT; Judith H Lichtman, YALE SCHOOL OF PUBLIC HEALTH, New Haven, CT
- P045 **Endothelin Receptor Blockade Eliminates Sex-differences In Natriuresis In Rats Acclimating To A High Salt Diet**  
**Victoria L Nasci**, Vanderbilt Univ Medical Ctr, Nashville, TN; Rawan Almutlaq, Univ of Minnesota, Minneapolis, MN; David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL; Eman Gohar, Vanderbilt Univ Medical Ctr, Nashville, TN
- P046 **The Association Of Sex And Gender With Disordered Eating Behavior In Youth With Hypertension**  
**Gagana Borra**, Wake Forest Sch of Med, Winston Salem, NC; Ella Perrin, Hanna Ravi, Andrew M South, WAKE FOREST SCHOOL OF MEDICINE, Winston Salem, NC
- P047 **The Protective Effect Of The D2R Against Inflammation Is Dependent On Sex And The Presence Of Hormones In Human Renal Proximal Tubule Cells.**

**Shaun Moore**, The GW Sch of Med, Washington, DC; Pedro Alves Soares Vaz de Castro, Jacob Polzin, Belo Horizonte, Brazil; Pedro A Jose, GEORGE WA UNIV SCH MED HEALTH SCI, Washington, DC; Ines Armando, GEORGE WASHINGTON UNIVERISITY, Washington, DC

- P048 Western Diet Consumption Exacerbates Hypertension In Hyperandrogenemic Female Rat, A Model Of Polycystic Ovary Syndrome.**  
Ruth M. Quin, Kacey Davenport, **Noha M. Shawky**, Cell and Molecular Biology Dept, Univ of Mississippi Medical Ctr, Jackson, MS
- P049 Blood Pressure Polygenic Risk Score Stratifies Individuals With High Risk Of Hypertension In Different Ancestries**  
**Samantha K Teixeira**, Vinicius Souza, Heart Inst - FMUSP, Sao Paulo, Brazil; Bernardo Horta, Pelotas, Brazil; Alexandre Pereira, Pelotas, Brazil, Brookline, MA; Jose E Krieger, Univ Sao Paulo Med Sch, Sao Paulo Sp, Brazil
- P050 Loss-of-function Cyp4a11 Variants Are Associated With Apparent Treatment Resistant Hypertension Identified In Electronic Medical Records; In The VA Million Veteran's Program And Vanderbilt's BioVU**  
**Megan M Shuey**, Jacklyn Hellwege, Vanderbilt Univ Medical Ctr, Nashville, TN; Adriana Maria Hung Sr., Todd L Edwards, Vanderbilt Univ, Nashville, TN; Nancy Brown, Yale Univ, New Haven, CT
- P051 Hypertension Is Associated With All-cause Mortality In Caucasians But Not African Americans With Suspected Cardiac Amyloidosis**  
**Sonakshi Manjunath**, Washington Univ Sch of Med, Saint Louis, MO; Elena Deych, Washington Univ, St Louis, MO; Daniel Lenihan, Saint Francis Health, Cape Girardeau, MO; Kathleen Zhang, Univ of Texas Southwestern Medical Ctr, Dallas, TX
- P052 Recurrent Major Depressive Disorder And Hypertension - A Nationwide Analysis Of Patient Demographics And In-hospital Outcomes**  
**Ibrahim Ahmed**, Mercy Catholic Medical Ctr, Philadelphia, PA; Richard Amoateng, Pittsburgh, PA; Mrudula Gadani, Pittsburgh, PA, Baden, PA
- P053 Causes And Predictors Of Readmission In Hypertensive Emergency - A Nationwide Inpatient Analysis**  
**Ibrahim Ahmed**, Mercy Catholic Medical Ctr, Philadelphia, PA; Richard Amoateng, Pittsburgh, PA
- P054 Loss Of The Smooth-muscle-cell-angiotensin Ii-sensitive Lncrna Leads To Smc Hypertrophic And Hypertensive Remodeling Due To Cell Cycle Dysregulation.** **Cristina Espinosa-Diez**, Mingjun Liu, Jianxin Wei, Sidney Mahan, Mingyuan Du, Univ of Pittsburgh, Pittsburgh, PA; Wenxi An, Pittsburgh, PA; Scott Hahn, Univ of Pittsburgh, Pittsburgh, PA; Thiago Bruder-Nascimento, Univ of Pittsburgh, Pittsburgh; Adam C Straub, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Sruti Shiva, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA, Pittsburgh, PA; Delphine A Gomez, UNIVERSITY OF PITTSBURGH, Pittsburgh
- P055 Standing Blood Pressure And Risk Of Falls, Syncope, Cardiovascular Disease, And Mortality**  
**Jordan Kondo**, Harvard Medical Sch, Boston, MA; Julia Wood, Karla Kendrick, Ruth-Alma Turkson-Ocran, Long Ngo, Jennifer Cluett, Beth Israel Deaconess Medical Ctr, Boston, MA; Lewis Lipsitz, Hinda and Arthur Marcus Inst for Aging Res, Boston, MA; Ken Mukamal, Beth Israel Deaconess Medical Ctr, Boston, MA; Elizabeth Selvin, Johns Hopkins Univ, Baltimore, MD; Pamela Lutsey, Univ of Minnesota, Minneapolis, MN; Josef Coresh, Johns Hopkins Univ, Baltimore, MD; B. Gwen Windham, Univ of Mississippi Medical Ctr, Jackson, MS; Natalie Malek, Johns Hopkins Univ, Baltimore, MD; Stephen Juraschek, Beth Israel Deaconess Medical Ctr, Boston, MA
- P056 Sex Differences In Association Between Gut Microbiome And Essential Hypertension Based On Ambulatory Blood Pressure Monitoring**  
**Kui Kai LAU**, Preeti D VIRWANI, Gordon QIAN, Matthew SS HSU, Tommy KKTS PIJARNVANIT, Carman Nga-Man CHEUNG, Yick Hin CHOW, Lok Kan TANG, Yiu-Hei TSE, Jia-Wen XIAN, Shirley Sau-Wing LAM, Crystal LEE, Chelsea CW LO, Roxanna KC LIU, Tsi Lok HO, Bak Yue CHOW, Kin Sum LEUNG, Hing Wai

TSANG, Emily Kwun Kwan LO, Keith TS TUNG, Patrick IP, Ivan Fan-Ngai HUNG, Jimmy Chun Yu LOUIE, Hani EL-NEZAMI, Joshua WK HO, The Univ of Hong Kong, Hong Kong, China

- P057 **Adipocyte Progenitor Cells In Perivascular Adipose Tissues: The Effect Of Sex And Anatomical Location** **Cristian J Rendon Mora**, Emma Darios Flood, Michigan State Univ, East Lansing, MI; Stephanie W Watts, G A Contreras, MICHIGAN STATE UNIVERSITY, East Lansing, MI
- P058 **Endothelial Dysfunction And Increased Contractility In Resistance Arteries Occurs Prior To Onset Of Hypertension In Schlager (BPH/2J) Mice** **Laena Pernomian**, Univ of South Carolina, Sch of Med, Columbia, SC; Emily Waigi, Cam McCarthy, Univ of South Carolina, Columbia, SC; Camilla F Wenceslau, Univ Of South Carolina, Columbia, SC
- P059 **Carotid Artery Stiffness Is Elevated In Young Hypertensive Rats Relative To Age-matched Normotensive Rats** **Elili Brown**, Wake Forest Sch of Med, Winston-Salem, NC; Wayne Graham, Wake Forest Baptist Health, Winston-Salem, NC; Debra I Diz, Wake Forest Sch of Med, Winston-Salem, NC; Nildris Cruz-Diaz, Wake Forest Sch of Med, Winston Salem, NC
- P060 **Chronic Gout And Hypertension: A Nationwide Analysis Of Patient Demographics** **Richard Amoateng**, Allegheny General Hosp, Pittsburgh, PA; Ibrahim Ahmed, Mercy Catholic Medical Ctr, Philadelphia, PA; Mrudula Gadani, Mercy Catholic Medical Ctr, Philadelphia, PA, Baden, PA
- P061 **Effect Of Short Chain Fatty Acid Butyrate On Cardiovascular Parameters In The Zebrafish Larvae** **Hemaa Sree Kumar**, Alexander S Wisner, Isaac T Schiefer, Jasenka Zubcevic, UNIVERSITY OF TOLEDO, Toledo, OH
- P062 **Interaction Of Cytochrome P450 1B1 And 12/15 Lipoxygenase In Paraventricular Nucleus In The Regulation Of Angiotensin II-induced Hypertension In Female Mice** **Shubha Ranjan Dutta**, Univ of Tennessee Health Science Ctr, MEMPHIS, TN; Purnima Singh, Univ of Tennessee, Memphis, TN; Chi Young Song, UNIVERSITY OF TENNESSEE HSC, Memphis, TN; Ji Soo Shin, Univ of Tennessee Health Science Ctr, MEMPHIS, TN; Kafait U Malik, UNIVERSITY TENNESSEE, Memphis, TN
- P063 **Long-term Efficacy Of Atomoxetine For The Treatment Of Symptomatic Neurogenic Orthostatic Hypotension** **Vasile Urechie**, Vanderbilt Univ Medical Ctr, Nashville, TN; Stefano Rigo, Vanderbilt Univ Medical Cente, Nashville, TN; Jose-Alberto Palma, 4 Dysautonomia Ctr, Dept of Neurology, NYU Langone Medical Ctr, New York city, NY; Andre Diedrich, VANDERBILT MEDICAL CENTER, Nashville, TN; Italo Biaggioni, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN; Horacio Kaufmann, NYU; Cyndya A Shibao, VANDERBILT UNIV. MEDICAL CENTER, Nashville, TN
- P064 **Anatomical Substrate For Leptin Control Of Central Autonomic Network Regulating Cardiovascular And Metabolic Functions** **Paul Williams**, Deng-Fu Guo, Alexis Olson, Univ of Iowa, Iowa City, IA; Kamal Rahmouni, UNIVERSITY IOWA, Iowa City, IA
- P065 **Standing Echocardiogram For Orthostatic Hypotension: A Feasibility Study** **Noelle Castilla-Ojo**, Harvard Medical Sch, Boston, MA; Julia Wood, Beth Israel Deaconess Medical Ctr, Boston, MA; Ruth-Alma N Turkson-Ocran, Beth Israel Deaconess Medical Ctr, Baltimore, MD; Ken J Mukamal, BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, MA; Jason D Matos, BETH ISRAEL DEACONESS, Boston, MA; Warren J Manning, BETH ISRAEL DEACONESS MED CTR, Boston, MA; Jordan B Strom, Beth Israel Deaconess Med Ctr, Milton, MA; Carla Baptista, Gabrielle Kolaci, Araina Picanzo, Beth Israel Deaconess Medical Ctr, Boston, MA; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Auburndale, MA
- P066 **Short-term Outcomes Of Hypertensive Crises In Patients With Orthostatic Hypotension.** **Ahmed M Elzanaty**, Rachel Royfman B.S, Univ of Toledo, Toledo, OH; Ahmed Maraey, Bismarck, ND; Ayman Saeyeldin, Saint Mary's Hosp, Waterbury, CT; CHANDRAMOHAN Meenakshisundaram, Univ of Toledo, Toledo, OH;



Mahmoud Khalil, Lincoln Medical Ctr, New York, NY; Hassan Aboulmour, Henry Ford Hosp, Detroit, MI; Blair P Grubb, UNIVERSITY TOLEDO, Toledo, OH

- P067 Sex-Specific Protection Of Fermentable Dietary Fiber On Salt-Sensitive Hypertension And Renal Function**  
**Justine M Abais-Battad**, Medical Coll of Georgia at Augusta Univ, Augusta, GA
- P068 Dietary Sodium Restriction Prevents Vascular Endothelial Growth Factor Inhibitor-Induced Hypertension**  
Leni van Doorn, Wesley J Visser, **Daan C Van Dorst**, Katrina M Mirabito Colafella, Stijn L. Koolen, Anneke van Emond-de Mik, Erasmus MC, Rotterdam, Netherlands; Ingrid Garrelds, Erasmusmc, Rotterdam, Netherlands; Dominique Bovee, Erasmus Medical Ctr, Rotterdam, Netherlands; Esther Oomen-de Hoop, Sander Bins, Ferry A Eskens, Erasmus MC, Rotterdam, Netherlands; Ewout Hoorn, Portland, OR; Jan H Danser, ERASMUS MC, Rotterdam; Ron Mathijssen, Jorie Versmissen, Erasmus MC, Rotterdam, Netherlands
- P069 Vegetable Consumption And Hypertension Among 16,445 Africans**  
**Akinkunmi Okekunle**, Onoja Akpa, Osahon Asowata, Univ of Ibadan, Ibadan, Nigeria; Tinashe Chikowore, Univ of the Witwatersrand, Johannesburg; Shukri Mohamed, African Population and Health Resea, Nairobi, Kenya; FRED S SARFO, KNUST, KUMASI, Ghana; Rufus Olusola Akinyemi, INSTITUTE FOR ADVANCED MEDICAL RESEARCH, UNIVERSITY OF IBADAN, Ibadan, Nigeria; Albert Akpalu, Korle Bu Teaching Hosp, Accra, Ghana; Kolawole Wahab, Univ of Ilorin Teaching Hosp, Ilorin, Nigeria; Reginald Obiako, Ahmadu Bello Univ Samaru, Sokoto, Nigeria; Morenikeji Komolafe, Obafemi Awolowo Univ, Ile -Ife, Nigeria; Lukman Owolabi, Aminu Kano Teaching Hosp., Kano, Nigeria; Godwin Osaigbovo, Jos Univ Teaching Hosp, Jos, Nigeria; Godwin Ogbale, Univ of Ibadan, Nigeria, Ibadan, Nigeria; Hemant K Tiwari, Univ of Alabama at Birmingham, Birmingham, AL; Joshua Akinyemi, Univ of Ibadan, Nigeria, Ibadan, Nigeria; Adekunle Fakunle, Univ of Ibadan, Ibadan, Nigeria; Ezinne Uvere, Abiodun Adeoye, Univ of Ibadan, Nigeria, Ibadan, Nigeria; Daniel T Lackland, MEDICAL UNIVERSITY SOUTH CAROLINA, Mt Pleasant, SC; Donna K Arnett, UK, Lexington, KY; Bruce Ovbiagele, Univ of California, San Francisco, CA; Michèle Ramsay, Univ of the Witwatersrand, Johannesburg, South Africa; Mayowa Owolabi, UNIVERSITY OF IBADAN, Ibadan, Nigeria
- P070 Vascular Conditioning Exercise Acutely Enhances Endothelial Function In Young Adults** **Dallin Tavoian**, Josie L Mazzone, Univ of Arizona, Tucson, AZ; Daniel H Craighead, Univ of Colorado Boulder, Boulder, CO; E. Fiona Bailey, Univ of Arizona, Tucson, AZ
- P071 A High-Fibre Diet Attenuates Hypertension By Improving Gut Barrier Integrity Via SCFA-Receptor Signalling**  
**Rikeish R Muralitharan**, MONASH UNIVERSITY, Clayton, Australia; Evany Dinakis, Monash Univ, Melbourne, Australia; Liang Xie, Monash Univ, Clayton, Australia; Hamdi Jama, Monash Univ, Melbourne, Australia; Michael Eugene Nakai, Monash Univ, Mount Waverley, Australia; Madeleine Paterson, Monash Univ, Mount Waverley, Australia, Clayton, Australia; Chad Johnson, La Trobe Univ, Melbourne, Australia; Ekaterina Salimova, Monash Biomedical Imaging, Clayton, Australia; Natalie Bitto, Monash Biomedical Imaging, Clayton, Australia, Melbourne, Australia; Maria Kaparakis-Liaskos, La Trobe Univ, Melbourne, Australia; Joanne O'Donnell, La Trobe Univ, Melbourne, Australia, Clayton, Australia; Charles Mackay, Monash Univ, Melbourne, Australia; Francine Z Marques, Monash Univ, Clayton, Australia
- P072 Prostaglandin I<sub>2</sub> (PGI<sub>2</sub>) Signaling Attenuates Hypertension And Associated Vascular Inflammation**  
**Allison E Norlander**, Jian Zhang, Masako Abney, Stokes Peebles, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN
- P073 Long-term Augmentation Of Acetylcholine Bioavailability Halts The Progression Of Lupus Hypertension**  
Caroline Gusson Shimoura, Cassandra M Young-Stubbs, Sarika Chaudhari, **Viet Q. Dinh**, Keisa W Mathis, Univ of North Texas Health Science Ctr, Fort Worth, TX
- P074 Pharmacological Inhibition Of Interleukin-18 Prevents Deoxycorticosterone/salt-induced Hypertension And Renal Inflammation**  
**Buddhila Wickramasinghe**, Maria Jelinic, Brooke Huuskes, Henry Diep, Grant Drummond, Antony Vinh, La Trobe Univ, Bundoora, Australia

- P075 **Functional NOX2 In T Cells Amplifies Salt-Sensitive Hypertension And Associated Renal Damage**  
**Samuel D. Walton**, Medical Coll of Georgia at Augusta Univ, Augusta, GA; John H Dasinger, Mary Shaw, Emily Burns, Justine M Abais-Battad, Augusta Univ, Augusta, GA; David L Mattson, Medical Coll Of Georgia, Augusta, GA
- P076 **Obesity Is Associated With Increased F2-isoprostanes And Il-6 In Black Women.** **Mohammad Saleem**, Pouya E Mehr, Ginger Milne, Paul D Kastner, Cyndya A Shibao, Annet Kirabo, Vanderbilt Univ Medical Ctr, Nashville, TN
- P077 **Targeting Neutrophilia Is A Therapeutic Strategy To Regulate Blood Pressure**  
**Piu Saha**, Blair Mell, Univ of Toledo, Toledo, OH; Xue Mei, Toledo, OH; Rachel Golonka, Toledo, OH, Canton, MI; Saroj Chakraborty, The Univ of Toledo, Toledo, OH; Beng San Yeoh, Univ of Toledo, Toledo, OH; Bina Joe, Univ of Toledo HSC, Toledo, OH; Matam Vijay-Kumar, Univ of Toledo, Toledo, OH
- P078 **Excess Risk Of Hypertension Among Black Adults And The Mediating Effects Of Leptin: The Reasons For Geographic And Racial Differences In Stroke (REGARDS) Cohort Study** **Sarah E Sherman**, Tulane Univ Sch of Med, New Orleans, LA; Eric Stoutenburg, Larner Coll of Med at the Univ of Vermont, Burlington, VT; Leann Long, UNIVERSITY OF ALABAMA AT BIRMINGHAM, Birmingham, AL; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Auburndale, MA; Mary Cushman, UNIVERSITY VERMONT, Colchester, VT; Virginia J Howard, UNIVERSITY OF ALABAMA-BIRMINGHAM, Birmingham, AL; Russell P Tracy, UNIVERSITY VERMONT, Colchester, VT; Suzanne E Judd, UAB, Birmingham, AL; Debora Kamin Mukaz, UAB, Birmingham, AL, Colchester, VT; Neil Zakai, UAB, Birmingham, AL, Colchester, VT, Burlington, VT; Tim B Plante, Univ of Vermont, Colchester, VT
- P079 **Leptin And Risk Of Incident Hypertension In The Reasons For Geographic And Racial Differences In Stroke (REGARDS) Cohort Study**  
**Sarah E Sherman**, Tulane Univ Sch of Med, New Orleans, LA; Eric Stoutenburg, Univ of Vermont, Burlington, VT; Leann Long, UNIVERSITY OF ALABAMA AT BIRMINGHAM, Birmingham, AL; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Auburndale, MA; Mary Cushman, UNIVERSITY VERMONT, Colchester, VT; Virginia J Howard, UNIVERSITY OF ALABAMA-BIRMINGHAM, Birmingham, AL; Russell P Tracy, UNIVERSITY VERMONT, Colchester, VT; Suzanne E Judd, UAB, Birmingham, AL; Debora Kamin Mukaz, UAB, Birmingham, AL, Colchester, VT; Neil A Zakai, UNIVERSITY OF VERMONT, Colchester, VT; Tim B Plante, Univ of Vermont, Colchester, VT
- P080 **Il-18 Potentiates Contractile Responses To Phenylephrine And Inhibits Relaxation Responses To Acetylcholine In Resistance Arteries From Wistar Rats**  
**Olufunke O Arishe**, Stephanie Wilczynski, Fernanda Priviero, R Clinton Webb, Univ of South Carolina, Columbia, SC
- P081 **Early Life Stress (ELS) Induces Greater Aortic Pulse Wave Velocity (PWV) Through Reactive Oxygen Species (ROS)**  
**Cailin E Kellum**, Felix Cruz-Ojeda, Lihao He, Min Xie, Jennifer Pollock, Univ of Alabama at Birmingham, Birmingham, AL
- P082 **Exposure To Excess Albumin Causes Inflammatory Activation Of The Proximal Tubule.**  
**Rawan Almutlaq**, Alex Dayton, Jaryd Ross, Yotesawee Srisomboon, Univ of Minnesota, Minneapolis, MN; Scott O'Grady, Louise C Evans, Univ of Minnesota, Minneapolis, MN
- P083 **Progression Of Vascular Dysfunction In A Mouse Model Of Kawasaki Disease**  
**Alina D Saiyid**, Shubhnita Singh, Ariane Bruder-Nascimento, Thiago Bruder-Nascimento, Univ of Pittsburgh, Pittsburgh, PA
- P085 **Sex Differences In Cardiovascular Measurements And Inflammatory Markers At Peak Influenza Infection In Mice**  
**Brigitte E Martin**, Univ of Mississippi Medical Ctr, Jackson, MS; Erin Taylor, UNIVERSITY OF MS MEDICAL CENTER, Jackson, MS; Esinam Attipoe, UNIVERSITY OF MS MEDICAL CENTER, Jackson, MS,

Clinton, MS; Kurt C Showmaker, The Jackson Lab, Farmington, CT; Michael R Garrett, UNIVERSITY OF MISSISSIPPI MED CNTR, Jackson, MS

- P086 Blood Pressure And Salt Differentially Regulate Testicular Immune Cell Populations In Hypertensive Mice**  
**Shobana Navaneethalakrishnan**, Bethany Goodlett, Texas A and M Univ, Bryan, TX; Hannah Smith, Bryan, TX; Brett M Mitchell, TEXAS A M HEALTH SCIENCE CENTER, Bryan, TX
- P087 Metformin Treatment Decreases Blood Pressure But Does Not Ameliorate Hypertensive Cardio-Renal Damage In A Double Transgenic Rat Model**  
**Moritz Immanuel Wimmer**, ECRC, Berlin, Germany; Hendrik Bartolomaeus, ECRC, Berlin; Chia-Yu Chen, MDC, Berlin, Germany; Sarah Kedziora, MDC Berlin, Berlin; Valentin Vecera, Olena Potapenko, ECRC, Berlin, Germany; Theda Bartolomaeus, Victor Hugo Jarquindiaz, MDC, Berlin, Germany; Ulrike Loeber, Max Delbruck Ctr, Berlin; Nadine Haase, EXPERIMENTAL AND CLINICAL RES CTR, Berlin; Sofia Kirke Forslund, EXPERIMENTAL AND CLINICAL RES CTR, Berlin, Berlin; Dominik N Mueller, MAX DELBRUCK CTR, Berlin; Nicola Wilck, ECRC, Berlin
- P088 Comparison Of Lay Advisor Interventions For Hypertension Across Racial Groups In The United States**  
**Leila Bushweller**, Cleveland Clinic Lerner Coll of Med, Cleveland, OH; Vishwa Bhayani, Univ of Missouri-Columbia, Columbia, MO; Yilin Yoshida, Tulane Univ, New Orleans, LA; Gwendolyn Wilson, Tulane Univ, New Orleans, LA, Columbia, MO; Kurt Stange, Case Western Reserve Univ, Cleveland, OH; Robert Saper, Case Western Reserve Univ, Cleveland, OH, Lyndhurst, OH; Sonal Patil, Cleveland Clinic Fndn, Solon, OH
- P089 Health Facility Readiness For Hypertension Management In Ghana, West Africa**  
**Samuel Byiringiro**, Johns Hopkins Univ, Baltimore, MD; Yvonne Commodore-Mensah, Elkridge, MD; Thomas Hinneh, Tain District Hosp, Nsawkaw, Ghana; FRED S SARFO, KNUST, KUMASI, Ghana; Cheryl R Dennison Himmelfarb, JOHNS HOPKINS UNIV, Baltimore, MD
- P090 Prevalence And Risk Factors Of Disordered Eating Behavior In Youth With Hypertension**  
**Ella C Perrin**, Hanna Ravi, Andrew M South, Wake Forest Sch of Med, Winston Salem, NC
- P091 Role Of Gata3 In Renin Cell Identity**  
**Jesus S Neyra**, Silvia Medrano, Maria Sequeira Lopez, Univ of Virginia Sch of Med, Charlottesville, VA; Roberto Ariel Gomez, UNIVERSITY OF VIRGINIA, Charlottesville, VA
- P092 Sex Differences In Cardiometabolic Risk Factors Of Obese Adolescents**  
**Lucrecia Valdez**, Yasir AlSiraj, Hong Huang, Univ of Kentucky, Lexington, KY; John Anthony Bauer, Univ of Kentucky Coll Med, Lexington, KY; Aurelia Radulescu, Dolph Davis III, Univ of Kentucky, Lexington, KY; Robin C Shoemaker, UNIVERSITY OF KENTUCKY, Lexington, KY
- P093 Preterm Birth And Hypertension Severity In Youth Referred For Hypertension Disorders: A Superhero Interim Analysis**  
**Rachel A Carrasquillo**, Wake Forest Sch of Med, Winston Salem, NC; Victoria Giammattei, Caroline B Lucas, Wake Forest Sch of Med, Winston Salem, NC; Christine Sethna, Carol Vincent, Winston Salem, NC; Irina Viviano, Winston-Salem, NC; Donald Weaver, Atrium Health Levine Children's, Charlotte, NC; Andrew M South, Wake Forest Sch of Med, Winston Salem, NC
- P094 Prevalence Of Polycystic Ovary Syndrome In Youth With Hypertension Disorders**  
Claudia Costa, Wake Forest Sch of Med, Winston Salem, NC; **Paula Patel**, Wake Forest, Winston Salem, NC; Cathrine Constantacos, Wake Forest Univ Sch Of Med, Winston Salem, NC; Janel Hunter, Wake Forest Univ Sch of Med, Winston-Salem, NC; Andrew M South, WAKE FOREST SCHOOL OF MEDICINE, Winston Salem, NC
- P095 Arginine Vasopressin Infusion Is Sufficient To Cause Pregnancy-specific Cardiac Hypertrophy**  
**Brandon M Schickling**, Serena Gumusoglu, Donna A Santillan, Mark K Santillan, Univ of Iowa, Iowa City, IA

- P096 **Association Of Maternal Blood Pressure With Offspring Blood Pressure In A Hypertensive Non-Human Primate Model**  
**Carol Vincent**, Ashton Chen, Wake Forest Sch of Med, Winston Salem, NC; Kylie Kavanagh, Andrew M South, WAKE FOREST SCHOOL OF MEDICINE, Winston Salem, NC
- P097 **Effect Of Maternal Fecal Microbiome And Adverse Pregnancy Outcomes In The Obese BPH/5 Female Mice**  
**Kalie F Beckers**, Louisiana State Univ Sch of Veterinary Med, Baton Rouge, LA; Christopher Schulz, Southeastern Louisiana Univ, Hammond, LA; Gary Childers, Southeastern Louisiana Univ, Hammons, LA; Jennifer L Sones, Louisiana State Univ, Baton Rouge, LA
- P098 **Association Between Postpartum Sleep Characteristics And Twenty-four Hour Blood Pressure Patterns In Women With And Without A History Of Preeclampsia**  
**Virginia Nuckols**, Mariah Guerrero, Univ of Iowa, Iowa City, IA; Amy Stroud, Univ of Iowa Hosp, Iowa City, IA; Mark K Santillan, UNIVERSITY IOWA CARVER COLL MED, Iowa City, IA; Gary L Pierce, UNIVERSITY OF IOWA, Iowa City, IA
- P100 **Combination Treatment Of Resveratrol And Pravastatin Decreases NF- $\kappa$ B Expression In HUVEC Model Of Preeclampsia**  
**Anna R Thamasett**, Olufunke O Arishe, R Clinton Webb, Abbi D Lane-Cordova, Univ of South Carolina, Columbia, SC
- P101 **AT1-AA Induced Hypertension During Pregnancy Decreases Maternal Cerebral Blood Flow Autoregulation Postpartum**  
**Nathan Campbell**, Univ of Mississippi Medical C, Jackson, MS; Luke Strong, Madison, MS; Xing Fang, The Univ of Mississippi Medic, Jackson, MS; Owen Herrock, Sarah Fitzgerald, Univ of Mississippi Medical C, Jackson, MS; Ty Turner, Jackson, MS; Evangeline M Deer, Univ of MS Medical Ctr, Brandon, MS; Lorena M Amaral, MEDICAL CENTER- UMMC, Jackson, MS; Richard J Roman, Univ of MS Med Cntr, Jackson, MS; Babbette B Lamarca, UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, MS
- P102 **A History Of Preeclampsia Is Associated With Accelerated Aging And Multimorbidity Later In Life**  
**Sonja Suvakov**, Lisa Vaughan, Santosh Parashuram, Mayo Clinic, Rochester, MN; Michelle Mielke, Wake Forest Univ Sch of Med, Winston-Salem, NC; Suzette J Bielinski, Alanna M Chamberlain, MAYO CLINIC, Rochester, MN; Kejal Kantarci, Mayo Clinic Rochester; Vesna D Garovic, MAYO CLINIC, Rochester, MN
- P103 **Apelin And Elabela Attenuate The Pro-inflammatory Response In Hypoxic HTR-8/SVneo Trophoblastic Cells**  
**Anna Soloshenko**, Wake Forest Sch of Med, Winston Salem, NC; Xuming Sun, Wake Forest Baptist Health, Winston Salem, NC; Mark C Chappell, Liliya M Yamaleyeva, WAKE FOREST SCHOOL MEDICINE, Winston Salem, NC
- P104 **Neutralization Of Marinobufagenin Demonstrates Efficacy In Vitro And In Vivo In Models Of Preeclampsia**  
**Ahmed F Pantho**, Syeda H Afroze, Orion Inst for Translational Med, Temple, TX; John M Wages, Bo Yu, Panorama Res, Inc, Sunnyvale, CA; Niraj Vora, Baylor Scott and White Hosp, Temple, TX; James W Larrick, Panorama Res, Inc, Sunnyvale, CA; Madhava R Beeram, Baylor Scott and White Hosp, Temple, TX; David C Zawieja, TAMUS HEALTH SCI CENTER, College Station, TX; Mohammad N Uddin, TAMU COM BSWH, Temple, TX
- P105 **Redox Modulator Akt-1005 Alleviates Oxidant Stress In An *In Vitro* Model Of Preeclampsia**  
**Diana Pintye**, BIDMC, Boston, MA; Agnes Lo, Beth Israel Deaconess Medical Cent, Boston, MA; Saira Salahuddin, BIDMC, Boston, MA; Ananth A Karumanchi, Cedars-Sinai Medical Ctr, W Hollywood, CA; Zsuzsanna K Zsengeller, BIDMC - Harvard Medical Sch, Boston, MA
- P107 **Adam 10 & 17 Double-knockout Impairs Renal And Vascular Functions And Induces Hypertension By Altering The Renal Proteomic Profiles**

Lynn-Htet-Htet Aung, Zhongjie Sun, UNIVERSITY OF TENNESSEE HSC, Memphis, TN

- P108 **Compensatory Changes In Metabolomic Profiles In The Kidney Of Sprague-dawley Rats Fed A High-salt Diet.**  
**Satoshi Shimada**, Medical Coll of Wisconsin, Milwaukee, WI; Brian R Hoffmann, Andrew S Greene, The Jackson Lab, Bar Harbor, ME; Mingyu Liang, Ranjan K Dash, Allen W Cowley Jr., Medical Coll of Wisconsin, Milwaukee, WI
- P109 **A Novel Murine Model Of Diet-induced Cholemia For Studies On The Gut-liver-kidney Axis In Blood Pressure Regulation**  
**Beng San Yeoh**, Piu Saha, Rachel M. Golonka, Ahmed A. Abokor, Univ of Toledo, Toledo, OH; Bina Joe, Univ of Toledo HSC, Toledo, OH; Matam Vijay-Kumar, Univ of Toledo, Toledo, OH
- P110 **Differential Gene Expression Associated With Ccn1-positive Renal Cells In Murine Hypertensive Models**  
**Justin G. McDermott**, Texas A&M Univ, Bryan, TX; Heidi Creed, Bryan, TX; Shobana Navaneethalakrishnan, Texas A and M Univ, Bryan, TX; Bethany Goodlett, Texas A and M Univ, Bryan, TX; Joseph M Rutkowski, Texas AandM Coll of Med, Bryan, TX; Brett M Mitchell, TEXAS A M HEALTH SCIENCE CENTER, Bryan, TX
- P111 **Deletion Of Na<sup>+</sup>/H<sup>+</sup> Exchanger 3 Selectively In The Proximal Tubules Doesn'T Prevent The Development Of Doca-salt Hypertension In Pt-*Nhe3*<sup>-/-</sup> Mice**  
**Ana Paula Oliveira Leite**, Tulane Univ, New Orleans, LA; Xiao C Li, Tulane Univ Sch of Medicin, New Orleans, LA; Rumana Hassan, Tulane Sch of Med, New Orleans, LA; Jia L Zhuo, Tulane Univ Sch of Medicin, New Orleans, LA
- P112 **Evidence Of Renin Expression And Function In The Brainstem**  
**Pablo Nakagawa**, Javier Gomez, Eva M Fekete, Medical college of Wisconsin, Milwaukee, WI; Daniel Brozowski, Milwaukee, WI; Justin L Grobe, Curt D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI
- P113 **SOX6 IS NOT A RELEVANT TRANSCRIPTION FACTOR FOR RENIN TRANSCRIPTIONAL REGULATION BY JUXTAGLOMERULAR CELLS**  
**Alexandre Goes Martini**, Maria Luisa Sequeira Lopez, Univ of Virginia, Charlottesville, VA; Roberto Ariel Gomez, UNIVERSITY OF VIRGINIA, Charlottesville, VA
- P114 **Differential Expression Of Angiotensin Ii Receptors In Aorta Of Ela2ko Mice With Abdominal Aortic Aneurysm.**  
**Ariel E Couto**, Fabiola Mestriner, Ribeirão Preto Medical Sch, Univ of São Paulo, Ribeirão Preto, Brazil; Carolina D Avila Mesquita, Carlos Corsi, Univ of Sao Paulo, Ribeirao Preto, Brazil; Vinicius Flora, Daniely Franco Francisco, FMRP-USP, Sao Paulo, Brazil; Ligia C Campos, Roberta R Rosales, Jocianny L Vasconcelos, Ribeirão Preto Medical Sch, Univ of São Paulo, Ribeirão Preto, Brazil; Katarzyna Polonis, MAYO CLINIC, Rochester, MN; Maurício S Ribeiro, Christiane Becari, Ribeirão Preto Medical Sch, Univ of São Paulo, Ribeirão Preto, Brazil
- P115 **Oxidized Ldl Potentiates Angiotensin Ii-induced  $\alpha$ Q Activation Through The At1-lox1 Receptor Complex In Kidney Cells**  
**YIBIN HUANG**, The department of geriatric and general medicine, Osaka university graduate school of medicine, Osaka, Japan; Koichi Yamamoto, Osaka university, Osaka, Japan; Hiromi Rakugi, 2 2 YAMADA OKA B6 SUITA OSAKA JAPA, Suita, Japan
- P116 **Specific Chromatin Configurations Across The Genome Determine The Renin Cell Identity**  
**Bingjie Xue**, Univ of Virginia, Charlottesville, VA; Silvia Medrano, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Jaosn Smith, Alexandre Goes Martini, Nathan Sheffield, Maria Luisa Sequeira-Lopez, Univ of Virginia, Charlottesville, VA; Roberto Ariel Gomez, UNIVERSITY OF VIRGINIA, Charlottesville, VA
- P117 **MECHANISMS OF SIGNALING PATHWAYS TRIGGERED BY ANGIOTENSIN I CONVERTING ENZYME IN CHO ECA CELLS TREATED WITH CAPTOPRIL**  
**Rodrigo Yokota**, Federal Univ of Sao

Paulo, Sao Paulo, Brazil; Ana Paula de Oliveira Leite, Tulane Univ, Jackson, MS; Vitor Marcel Faça, Univ of Sao Paulo, Sao Paulo, Brazil; Dulce Elena Casarini, Federal Univ of Sao Paulo, Sao Paulo, Brazil

- P118 **Metabolic And Hemodynamic Disorders In Obese Patients With True And Pseudo-resistant Hypertension**  
**Anna Shalimova**, Therapy Natl Inst, Kharkiv, Ukraine
- P119 **Severe Paroxysmal Hypertension In Patient With Gastric Neuroendocrine Tumor Detected By PET Dotatate Imaging**  
**Vira Ayzenbart**, Melissa Wasilewski, Matthew Schumaecker, Carilion Clinic, Roanoke, VA
- P120 **Left Ventricular Hypertrophy Is Associated With Higher Cardiac Biomarkers In Patients With Covid-19**  
**Beatriz Rivera Rodriguez**, Univ of Miami/Jackson Memorial Hosp, Miami, FL; Crystal Yan, Miami, FL; Laura X Aponte Becerra, Univ of Miami/Jackson Memorial Hosp, Miami, FL; Neal Olarte, Univ of Miami-Jackson Memorial Hosp, Miami, FL; Sharon Andrade-Bucknor, Univ of Miami/Jackson Memorial Hosp, Miami, FL
- P121 **Sensitivity And Specificity Of The Biobeat Watch In Monitoring Covid19 Patients: Preliminary Data**  
**Valerio Pecchioli**, Nazzareno Lomartire, Lucia Valente, Maria Paola Gemmiti, Maria Pia Corsi, ASL FROSINONE ITAY, Sora, Italy; Arik Eisenkraft, The Hebrew Univ Jerusalem, Jerusalem, Israel; Lorenzo Pecchioli, ASL FROSINONE ITAY, Frosinone, Italy; Francesco Fedele, SAPIENZA UNIVERSITY OF ROME, Rome, Italy
- P122 **Posterior Reversible Encephalopathy Syndrome Following Moderna M-RNA Booster Vaccination Secondary To Hypertension Vs Vaccine Adverse Effect?**  
**Jocelyn McCullough**, Manal Ahmad, Northwell Mather Hosp, Port Jefferson, NY
- P123 **Angiotensin II Type 1a Receptor Expressed Insmooth Muscle Cells Is Required Forangiotensin II-induced Vascular Remodeling But Not For Cardiac Hypertrophy** **Keisuke Okuno**, Keiichi Torimoto, Stephanie Cicalese, Temple Univ, Philadelphia, PA; Matthew A Sparks, DUKE UNIVERSITY MEDICAL CTR, Durham, NC; Satoru Eguchi, TEMPLE UNIVERSITY SCHOOL OF MEDICIN, Philadelphia, PA
- P124 **Bainiku-ekisu Attenuates Cardiac Remodeling In Angiotensin II-infused Mice** **Keisuke Okuno**, Keiichi Okuno, Temple Univ, Philadelphia, PA; Ryohei Kuroda, Temple Univ, Wynnewood, PA; Stephanie Cicalese, Temple Univ, Philadelphia, PA; Yoshiharu OKUNO, Nat. Inst. Technol., Wakayama, Wakayama, Japan; Ryohei Kono, Osaka Kawasaki Rehabilitation Univ, Kaizuka, Japan; Shinsuke MARUMOTO, Kindai Univ, OSAKA, Japan; Hirotooshi Utsunomiya, Osaka Kawasaki Rehabilitation Univ, Kaizuka, Japan; Satoru Eguchi, TEMPLE UNIVERSITY SCHOOL OF MEDICIN, Philadelphia, PA
- P125 **Long-term Exposure Of Angiotensin II Enhanced Vascular Contraction Via Activation Of Protein Kinase C Beta**  
Nayu Morikita, **Masashi Mukohda**, Okayama Univ of Science, Imabari Ehime, Japan; Sho Nakamura, Nagoya Univ, Nagoya Aichi, Japan; Sayaka Naganishi, Okayama Univ of Science, Imabari Ehime, Japan; Risuke Mizuno, Okayama Univ of Science, Imabari; Hiroshi Ozaki, Okayama Univ of Science, Imabari, Japan
- P126 **FXR1 Regulates Vascular Smooth Muscle Cell Cytoskeletal Dynamics By Multiple Mechanisms**  
**Amanda St Paul**, TEMPLE UNIVERISTY SCHOOL OF MEDICIN, Philadelphia, PA; Kyle Preston, Temple Univ Sch of Med, Philadelphia, PA; Cali Corbett, LEWIS KATZ SCHOOL OF MEDICINE, Philadelphia, PA; Tani Leigh, Rachael Okune, Temple Univ, Philadelphia, PA; Sheri E Kelemen, TEMPLE UNIVERSITY, Philadelphia, PA; Satoru Eguchi, Dale S Haines, TEMPLE UNIVERSITY SCHOOL OF MEDICIN, Philadelphia, PA; Michael Autieri, TEMPLE UNIVERSITY, Philadelphia, PA
- P127 **Systemic Immune-Inflammatory Index (SII) In Hypertensive Adults**  
**Christian S. DeSouza**, The Univ of Texas Health Science Ctr at Houston, Austin, TX; Vinicius P Garcia, Jared J. Greiner, Univ of Colorado, Boulder, CO; Brian L. Stauffer, Univ of Colorado Anschutz Medical Campus, Denver, CO; Christopher A. DeSouza, Univ of Colorado, Boulder, CO

- P128 **Sexual Dimorphisms In Perivascular Adipose Tissue In A Novel Mouse Model Of Diet-Induced Metabolic Syndrome.**  
**Vivian Tran**, Holly Brettle, Henry Diep, Quynh Nhu Dinh, Christopher G Sobey, Grant Drummond, Antony Vinh, Maria Jelinic, La Trobe Univ, Bundoora, Australia
- P129 **Increasing In SHR Aortic Distensibility During The Onset Of Hypertension: The Role Of Appropriate Normalization For Stress-Strain Measurements.**  
**Ian S Montandon**, Milene T. Fontes, Emily W. Waigi, Laena Pernomian, Tiago J. Costa, Univ of South Carolina, Columbia, SC; Mark J. Uline, UNIVERSITY OF SOUTH CAROLINA, Columbia, SC; Luciana V Rossoni, UNIVERSITY OF SAO PAULO, Sao Paulo, Brazil; R Clinton Webb, Cameron G. McCarthy, Univ of South Carolina, Columbia, SC; Camilla F Wenceslau, Univ Of South Carolina, Columbia, SC
- P130 **Specialized Pro-resolving Mediator, Lipoxin A4, Attenuates Age-dependent Vascular Damage**  
**Ian S. Montandon**, Milene T. Fontes, Univ of South Carolina, Columbia, SC; Mark J. Uline, UNIVERSITY OF SOUTH CAROLINA, Columbia, SC; R Clinton Webb, Cameron G. McCarthy, Univ of South Carolina, Columbia, SC; Camilla F Wenceslau, Univ Of South Carolina, Columbia, SC
- P131 **Abnormal Blood Pressure Fall During Hyperventilation Maneuver In Postural Tachycardia Syndrome**  
Vasile Urechie, Vanderbilt Univ Medical Ctr, Nashville, TN; **Stefano Rigo**, Vanderbilt Univ Medical Ctr, Nashville, TN; Cyndya A Shibao, VANDERBILT UNIV. MEDICAL CENTER, Nashville, TN; Luis Enrique Okamoto, Vanderbilt Univ Medical Ctr, Nashville, TN; Alfredo Gamboa, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN; Italo Biaggioni, Amr Wahba, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN; Khaled Elkholey, Morgane Giesecke, TN; James Muldowney, Nashville, TN; Abigail E Mohr, Vanderbilt Univ Medical Ctr, Nashville, TN; Andre Diedrich, VANDERBILT MEDICAL CENTER, Nashville, TN
- P132 **DDR And B-1 Integrin Are Partners With Collagen In Mediating Stress Relaxation In APVAT**  
**Caitlin S Wilson**, Emma Darios Flood, Michigan State Univ, East Lansing, MI; Stephanie W Watts, MICHIGAN STATE UNIVERSITY, East Lansing, MI
- P133 **Human Induced Pluripotent Stem Cells-derived Vascular Endothelial And Smooth Muscle Cells And Fractions Of Native Human Arterioles Exhibit Robust Expression Of Marker Genes**  
**Rajan Pandey**, Yong Liu, Pengyuan Liu, Jingli Wang, Jing Huang, Chun Yang, Manoj K Mishra, Bhavika Therani, Srividya Kidambi, Aron M Geurts, Medical Coll of Wisconsin, Milwaukee, WI; Sridhar Rao, Versiti Blood Res Inst, Milwaukee, WI; Allen W Cowley Jr., Michael E Widlansky, Medical Coll of Wisconsin, Milwaukee, WI; Andrew S Greene, The Jackson Lab, Bar Harbor, ME; Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- P134 **Tnfa Impairs Endothelial Calcium Signaling And Elevates Blood Pressure In Obesity.** **Maniselman Kuppusamy**, Matteo Ottolini, Univ of Virginia, Charlottesville, VA; Zdravka Daneva, Yen-Lin Chen, Univ of Virginia, Charlottesville, VA; Swapnil K Sonkusare, Charlottesville, VA
- P135 **Specialized Pro-resolving Molecular Pathway Is Impaired In Resistance Arteries From Hypertensive Rats.**  
**Milene T. Fontes**, Univ of South Carolina, Columbia, SC; Jonnelle Edwards-Glenn, Case Western Reserve Univ, Cleveland, OH; Tiago Costa, Emily Waigi, Laena Pernomian, R Clinton Webb, Cam McCarthy, Univ of South Carolina, Columbia, SC; Camilla F Wenceslau, Univ Of South Carolina, Columbia, SC
- P136 **Exploring The Interactions Between Rho-related BTB Domain Containing 1 (RhoBTB1) And Phosphodiesterase 5 (PDE5) To Identify Novel Therapeutic Candidates To Counter Hypertension**  
**Gaurav Kumar**, Medical Coll of Wisconsin, Milwaukee, WI; Jing Wu, Univ of Rochester Medical Ctr, Rochester, NY; Daniel T. Brozoski, Ko-Ting Lu, Curt D. Sigmund, Medical Coll of Wisconsin, Milwaukee, WI
- P137 **Proteomic And Phosphoproteomic Profiling Reveals Structural And Functional Changes In The Abdominal Aorta Of Male Sprague Dawley Rats That Associate With Age-dependent Hypertension**  
**Razie Amraei**, Noah Lampl, Boston Univ, Boston, MA; Andrew Emili, BOSTON UNIVERSITY, Boston, MA; Richard D Wainford, BOSTON UNIV SCHOOL MEDICINE, Charlestown, MA

- P138 **Novel Smooth Muscle Ca<sup>2+</sup>-signaling Nanodomains In Blood Pressure Regulation**  
**Yen-Lin Chen**, Univ of Virginia, Charlottesville, VA; Zdravka Daneva, Univ of Virginia, Charlottesville, VA; Maniselvan Kuppusamy, Univ of Virginia, Charlottesville, VA; matteo ottolini, Univ of Virginia, Charlottesville, VA; Thomas Baker, Univ of Virginia, Charlottesville, VA; Eliska Klimentova, Univ of Virginia, Charlottesville, VA, CHARLOTTESVILLE, VA; Soham Shah, Univ of Virginia, Charlottesville, VA, CHARLOTTESVILLE, VA, Charlottesville, VA; jennifer sokolowski, Univ of Virginia, Charlottesville, VA; Min Park, Univ of Virginia, Charlottesville, VA, Charlottesville, VA; Swapnil K Sonkusare, Univ of Virginia, Charlottesville, VA, Charlottesville, VA, Charlottesville, VA
- P139 **Association Of Thoracic Aorta Calcification And Aortic Arch Stiffness: The Multi-ethnic Study Of Atherosclerosis**  
**Tara S Allen**, Univ of California San Diego, La Jolla, CA; Leah I Andrews, Lyndia C Brumback, Univ of Washington, Seattle, WA; Michael R Daniels, Julie O Denenberg, Isac C Thomas, Univ of California San Diego, La Jolla, CA; Germaine G Cornelissen-Guillaume, Daniel A Duprez, David R Jacobs Jr., Univ of Minnesota, Minneapolis, MN; Michael H Criqui, Matthew A Allison, Univ of California San Diego, La Jolla, CA
- P140 **Indanyloxyacetic Acid-94 Decreases Contraction In Uterine Arteries In Response To Phenylephrine And Decreases Response To Phenylephrine After Ca<sup>2+</sup> Replacement** **Stephanie Wilczynski**, Olufunke Arishe, Univ of South Carolina, Columbia, SC; Fernanda Priviero, R. Clinton Webb, Univ of South Carolina, Columbia, SC
- P141 **Phosphodiesterases Mediate The Facilitatory Effect Of Inhibitory G Proteins On Myogenic Constriction And Are Negatively Regulated By The Dual Action Of Rgs2 And 5**  
**Alethia J Dixon**, Nia Smith, Patrick Osei Owusu, CASE WESTERN RESERVE UNIVERSITY, Cleveland, OH
- P142 **Progranulin Controls Vascular Proliferation And Migration Via Regulating Autophagy Flux**  
**Shubhnita Singh**, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Ariane Bruder Nascimento, Thiago Bruder-Nascimento, Univ of Pittsburgh, Pittsburgh, PA

## Poster Session 2

### PS.02.01 Antihypertensive Drugs and Pharmacology

- P200 **Long-term Cardiovascular Risk In Hypertensive Emergencies Or Urgencies**  
**William J Elliott**, Pacific Northwest Univ of Health Sciences, Yakima, WA
- P201 **Canagliflozin, Visit-to-visit Blood Pressure Variability, And Risk Of Cardiovascular, Kidney, And Mortality Outcomes: Pooled Individual Participant Data From The CANVAS And CREDENCE Trials**  
**Robert A Fletcher**, Clare Arnott, The George Inst for Global Health, Newtown, Sydney, Australia; Patrick Rockenschaub, Charité Lab for Artificial Intelligence in Med, Charité Univsmedizin Berlin, Berlin, Germany; Aletta E Schutte, Univ of New South Wales, Sydney, Australia; Lewis Carpenter, Health Psychology Section, Inst of Psychiatry, Psychology and Neuroscience, King's Coll London, London, United Kingdom; Muthiah Vaduganathan, Cardiovascular Div, Brigham and Women's Hosp, Boston, MA; Hiddo J Heerspink, Dept of Clinical Pharmacy and Pharmacology, Univ of Groningen, Univ Medical Ctr Groningen, Groningen, Netherlands; Bruce Neal, Min Jun, Anthony Rodgers, Vlado Perkovic, Brendon Neuen, The George Inst for Global Health, Newtown, Sydney, Australia
- P202 **An Efficacy Assessment Of The Cardioprotective Effects Of Alpha-calcitonin Gene Related Peptide ( $\alpha$ CGRP) Encapsulated Alginate Microcapsules In A Murine Model Of Heart Failure**  
**Ambrish Kumar**, Univ of South Carolina Sch of Med, Columbia, SC; Donald J Dipette, UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE, Columbia, SC; Julian Vitello, Univ of South Carolina, Columbia, SC; Jay D. Potts, Univ of South Carolina Sch of Med, Columbia, SC
- P203 **Plant-derived Compounds And Plant Extracts Reduce Blood Pressure In A Rat Model Of Preeclampsia**



**Rebecca Reddy**, Durban Univ of Technology, Durban, South Africa; **Sooraj Bajjnath**, Univ of the Witwatersrand, Johannesburg, South Africa; **Sanil D Singh**, Thajasvarie Naicker, Univ of KwaZulu-Natal, Durban, South Africa; **Nalini Govender**, Durban Univ of Technology, Durban, South Africa

**P204 Targeting Gut Commensal *Coprococcus* As A Mechanism To Treat Resistant Hypertension** Xue Mei, Jun Kyoung, Toledo, OH; Ethel Tackie-Yarboi, Dept of Medicinal and Biological Chemistry, Coll of Pharmacy and Pharmaceutical Sciences, Toledo, OH; Millicent Akere, Blair Mell, Rohit Atluri, Univ of Toledo, Toledo, OH; Jasenka Zubcevic, Elaine M Richards, UNIVERSITY OF FLORIDA, Gainesville, FL; Carl Pepine, Gainesville, FL; Mohan K Raizada, UNIV FLORIDA COLLEGE OF MEDICINE, Gainesville, FL; Isaac T Schiefer, UNIVERSITY OF TOLEDO, Toledo, OH; Bina Joe, Univ of Toledo HSC, Toledo, OH; **Tao Yang**, Univ of Toledo, Toledo, OH

### PS.02.02 Blood Pressure Monitoring 1

**P205 A Novel Wearable Monitor Shows Diurnal Changes Of Multiple Hemodynamic Parameters In Ambulatory Individuals**

**Arik Eisenkraft**, The Hebrew Univ Jerusalem, Jerusalem, Israel

**P206 Are Home Blood Pressure Devices Accurate? A Systematic Review Of The Evidence**

**Swapnil Hiremath**, Univ of Ottawa, Ottawa, ON, Canada

**P207 The Feasibility Of A 6-week, Pharmacist-Led, Self-Monitored Blood Pressure Treatment Program**

**Anthony M Ishak**, Beth Israel Deaconess, Boston, MA; Jennifer Cluett, BIDMC-Harvard Medical Sch, Boston, MA; Julia Wood, Beth Israel Deaconess Medical Cente, Brighton, MA; Medha Vyavahare, Beth Israel Deaconess Medical Cente, Brighton, MA, Brookline, MA; Ken J Mukamal, BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, MA; Stephen P Juraschek, BIDMC-Harvard Medical Sch, Auburndale, MA

**P208 Utility Of Standing Office Blood Pressure In Assessing Blood Pressure Control In Patients With Autonomic Failure**

**Ghazi Khan**, UTSW, Dallas, TX; John Giacona, Danielle Pittman, UT Southwestern Medical Ctr, Dallas, TX; Jijia Wang, Dallas, TX; Wanpen Vongpatanasin, UNIVERSITY TX SOUTHWESTERN MED, Dallas, TX

**P209 Ambulatory Arterial Stiffness Index In Detecting Autonomic Failure**

**Ghazi Khan**, UTSW, Dallas, TX; John Giacona, UT Southwestern Medical Ctr, Dallas, TX; Jijia Wang, Danielle Pittman, UT Southwestern Medical Ctr, Dallas, TX, Dallas, TX; Wanpen Vongpatanasin, UNIVERSITY TX SOUTHWESTERN MED, Dallas, TX

**P210 Mir-204 In Endothelial Cells Contributes To The Development Of Hypertension**

**Jing Liu**, Univ of Rochester, Rochester, NY; Maya Guenther, Yong Liu, Medical Coll of Wisconsin, Milwaukee, WI; Jing Wu, Univ of Rochester Medical Ctr, Rochester, NY; Xuanchen Liu, Kristie Usa, Rajan Pandey, Ian Markson, Aron M Geurts, Medical Coll of Wisconsin, Milwaukee, WI; Sheldon Miller, Natl Eye Inst, Bethesda, MD; Mingyu Liang, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI

### PS.02.03 BP Control and Adherence to Treatment 1

**P211 Use Of Coaching And Technology To Improve Blood Pressure Control In Black Women With Hypertension**

**Willie M Abel**, UNIV NORTH CAROLINA AT CHAR, Charlotte, NC; Jimmy T. Efird, VA Office of Res & Development, Boston, MA

**P212 A Community Intervention For Hypertension Control Using Health Worker Outreach And Algorithmic Software-driven Blood Pressure Management**

**Rahul C Deo**, Rebecca Smith, Ogechi Nwoko, Gabrielle McCann, Atman Health, Needham, MA; Wanda Baker, Detroit Association of Black Organizations, Detroit, MI; Calum A MacRae, Brigham and Women's Hosp, Boston, MA; Esha Price, Horace Sheffield, Detroit Association of Black Organizations, Detroit, MI; Rahul Patel, Atman

Health, Needham, MA; Elizabeth Ortiz, Stephanie Mayfield, Resolve to Save Lives, New York, NY; Jaime Murillo, UnitedHealth Group, Minnetonka, MN

- P213 **Bridging The Gap In Hypertension Outcomes In Rural United States: A 6-month Report From A Pharmacist-run Hypertension Clinic In An Appalachian University Teaching Hospital**  
**Ebubechukwu Ezeh**, Marshall Univ, Huntington, WV; Brittany Messer, Marshall Cardiology, Huntington, WV; Xiaoliang Wang, Marshall Health, Huntington, WV; Kanaan Mansoor, Marshall Univ, Huntington, WV; Ellen Thompson, MARSHALL CARDIOLOGY, Huntington, WV
- P214 **Disparities In Hypertension Medication Adherence Across Sexual Orientations**  
**Syed Hyder**, Samantha A Schoenl, Medical Coll of Georgia, Augusta, GA; Onoriode Kesiena, Piedmont Athens Regional, Athens, GA
- P215 **Evidence Of Terminal Digit Preference In Veterans Affairs Midwest Region Primary Care Clinics**  
Meghan O'Halloran, Hines VA Medical Ctr, Hines, IL; **Holly Kramer**, Loyola Univ Chicago, Maywood, IL; Ashley Hughes, Univ of Illinois Chicago, Chicago, IL; Frances Weaver, Ibuola Kale, Zhiping Huo, Kevin Stroupe, Elizabeth Tarlov, Hines VA Medical Ctr, Hines, IL
- P217 **Cardiac Involvement In Creatine Deficiency Syndrome: From Transgenic Model To Humans**  
**Annamaria Del Franco**, Scuola Superiore Sant'Anna, Pisa, Italy; Roberta Battini, Dept of Developmental Neuroscience, IRCCS Fondazione Stella Maris, Pisa, Italy; Yu Fu Ferrari Chen, Cardiovascular Med and Cardiology Dept, Fondazione Toscana Gabriele Monasterio, Pisa, Italy; Claudia Kusmic, CNR Inst Clinical Physiology, Pisa, Italy; Francesca Forini, Inst of Clinical Physiology, PISA, Italy; Serena L'Abbate, Scuola Superiore Sant'Anna, Pisa, Italy; Silvia Masotti, Lab of Cardiovascular Endocrinology and Cell Biology, CNR-Regione Toscana, Fondazione G. Monasterio and Scuola Superiore Sant'Anna, Pisa, Italy; Veronica Musetti, Lab of Cardiovascular Endocrinology and Cell Biology, CNR-Regione Toscana, Fondazione G. Monasterio and Scuola Superiore Sant'Anna, Pisa, Italy; Chiara Borrelli, Lab of Cardiovascular Endocrinology and Cell Biology, CNR-Regione Toscana, Fondazione G. Monasterio and Scuola Superiore Sant'Anna, Pisa, Italy, Pisa, Italy; Andrea Barison, Fondazione Toscana Gabriele Monasterio, Pisa, Italy; Michele Emdin, Fondazione Gabriele Monasterio, Pisa, Italy; Giuseppe Vergaro, Fondazione Toscana Gabriele Monasterio, Pisa, Italy

#### PS.02.04 Cerebrovascular Disease and Stroke

- P218 **Risk Factors Of Dementia In Patients With Hypertension: A Population-Based Cohort Study**  
**Mi-Hyang Jung**, Seoul St. Mary's Hosp, Seoul, Korea, Republic of; Sang Joon An, Catholic Kwandong Univ Intl Saint Mary's Hosp, Incheon, Korea, Republic of; KiChul Sung, Sungkyunkwan university, Seoul
- P219 **Effect Of Hypertension On Clinical Recovery After Stroke Thrombectomy**  
**Amogh Killedar**, Ohio Clinical Trials, Columbus, OH; Michelle Hill, Peter Pema, Ronald Budzik, Abdunnasser Alhajeri, Adam Koss, Nikita Dedhia, Aaron Loochtan, Vivek Rai, Brian Katz, William Hicks, Brad Raetzke, Nirav Vora, OhioHealth Riverside Methodist Hosp, Columbus, OH

#### PS.02.05 Clinical Trials in Hypertension and Related Morbidities

- P220 **Effects Of Orthostatic Hypotension On Intensive Blood Pressure Treatment With Respect To All-cause Mortality: An Individual-level Meta-analysis**  
**Stephen P Juraschek**, BIDMC-Harvard Medical Sch, Boston, MA; Jiun-Ruey Hu, Yale Sch of Med, New Haven, CT; Jennifer L Cluett, BIDMC-Harvard Medical Sch, Boston, MA; Anthony M Ishak, Beth Israel Deaconess, Boston, MA; Carol Mita, Harvard Medical Sch, Boston, MA; Lewis A Lipsitz, HEBREW REHAB-IFAR, Roslindale, MA; Lawrence J Appel, JOHNS HOPKINS UNIVERSITY, Baltimore, MD; Nigel S Beckett, Imperial Coll, London, United Kingdom; Ruth L Coleman, Univ of Oxford, Oxford, United Kingdom; William C Cushman, Univ of Tennessee Health Scie, Memphis, TN; Barry R Davis, Univ of Texas Sch Pub Hlth, Sugar Land, TX; Greg Grandits, Univ of Minnesota, Minneapolis, MN; Rury R Holman, Univ of Oxford, Oxford, United Kingdom; Edgar R Miller III, JOHNS HOPKINS MEDICAL INSTITUTIONS, Baltimore, MD; Ruth Peters, Imperial Coll; Jan A Staessen, Univ of Leuven, Leuven, Belgium; Addison A Taylor, Veteran Affairs,

Houston, TX; Jackson T Wright Jr., CASE WESTERN RESERVE UNIV, Cleveland, OH; Kenneth J Mukamal, BETH ISRAEL DEACONESS MEDICAL CTR, Brookline, MA

- P221 Cardiovascular Outcomes In Hypertensive Patients Who Discontinue Study Medication In A Large Outcome Trial. The Life Study.**  
Kristian Wachtell, Weill Cornell Med, New York, NY; Stevo Julius, Univeristy of Michigan Med Ctr, Ann Arbor, MI; Peter M Okin, WEILL CORNELL MEDICINE, New York, NY; Anders M Greve, Rigshospitalet, Copenhagen, Denmark; Richard B Devereux II, Weill Cornell Med, New York, NY; Suzanne Oparil, UNIVERSITY OF ALABAMA AT BIRMINGHAM, Birmingham, AL; **Sverre E Kjeldsen**, Univ of Oslo Hosp, Oslo, Norway; Kurt Boman, Univ of Northern Sweden, Umea, Sweden
- P222 Effectiveness Of A Multicomponent Implementation Strategy On Increasing Uptake Of USPSTF Hypertension Screening Recommendations In A Primary Care Network: The Embrace Cluster Randomized Trial**  
**Ian M Kronish**, COLUMBIA UNIVERSITY, New York, NY; Erica Phillips, WEILL CORNELL MEDICINE, New York, NY; Eileen Carter, Univ of Connecticut, Storrs, CT; Carmela Alcantara, Univ of Connecticut, Storrs, CT, New York, NY; Joseph E Schwartz, COLUMBIA UNIVERSITY, New York, NY; Dominic T Razon, Weill Cornell Med, New York, NY; Maria A Serafini, COLUMBIA UNIVERSITY, New York, NY; James Flatow, Columbia Univ, New York, NY; Jose Sanchez, Columbia Univ, New York, NY, New York, NY; Daichi Shimbo, Nathalie Moise, COLUMBIA UNIVERSITY, New York, NY
- P223 Hypertension Telemonitoring And Protocolized Case Management For Community-Dwelling Older Adults: A Randomized Controlled Trial**  
**Darren Lau**, Jennifer Ringrose, Univ of Alberta, Edmonton, AB, Canada; McAlister Finlay, Edmonton, AB, Canada; Miriam Fradette, Peter Wood, Pierre Boulanger, Scott Klarenbach, Jayna Holroyd-Leduc, Kannayiram Alagiakrishnan, Univ of Alberta, Edmonton, AB, Canada; Doreen Marie Rabi, Univ of Calgary, Calgary, AB, Canada; Raj Padwal, Univ of Alberta, Edmonton, AB, Canada
- PS.02.06 Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome 1**
- P224 Perivascular Adipose Tissue May Contribute To Disparate Blood Pressure Responses To Lifetime High Fat Feeding In Dahl Salt-sensitive And Salt-resistant Rats**  
**Gregory Fink**, MICHIGAN STATE UNIVERSITY, East Lansing, MI; Hannah Garver, East Lansing, MI; Jeremy Hix, Teresa Krieger-Burke, Stephanie W Watts, MICHIGAN STATE UNIVERSITY, East Lansing, MI
- P225 Dahl Salt-sensitive And Salt-resistant Rats Exhibit Highly Disparate Blood Pressure Responses To Lifetime High Fat Diet Feeding**  
**Gregory Fink**, Hui Xu, MICHIGAN STATE UNIVERSITY, East Lansing, MI; Roxanne Fernandes, Michigan State Univ, East Lansing, MI; Hannah Garver, Michigan State Univ, East Lansing, MI, East Lansing, MI; Adam A Lauver, Michigan State Univ, East Lansing, MI; Stephanie W Watts, MICHIGAN STATE UNIVERSITY, East Lansing, MI
- P226 Effects Of White Adipose Tissue Denervation On Cardiovascular And Renal Parameters In Wistar Rats Treated With High-fat Diet**  
**ERIKA E NISHI**, SaoPaulo Sch of Med UNIFESP, Sao Paulo, Brazil
- P227 A High Fat Diet Does Not Enhance Blood Pressure Dependence On Chemerin In Normotensive Rats**  
**Stephanie W Watts**, MICHIGAN STATE UNIVERSITY, East Lansing, MI; Adam E Mullick, Ionis Pharmaceuticals, Inc., Carlsbad, CA; Hannah Garver, Alexis Orr, Michigan State Univ, East Lansing, MI; Gregory D Fink, MICHIGAN STATE UNIVERSITY, East Lansing, MI
- P037 Impact Of Protein Energy Malnutrition On Inpatient Outcomes Of Hypertensives Emergencies : Insight From The National Inpatient Sample**  
**Smriti Khanal**, Sandhya Kannayairam, Sadichhya Karki, Abhushan Poudyal, Dae Yong Park, John H Stroger Hosp of Cook County, Chicago, IL

## PS.02.07 Hypertension and Aging 1

- P228 **HYPERTENSIVE ARTERIAL STIFFNESS LEADS TO BAROREFLEX DYSFUNCTION** **Mariano Duarte**, Hosp de Clínicas - Lab Fisiopatología CV Facultad de Medicina UBA, Buenos Aires, Argentina; Analía Aquiri, Javier Coyle, Claudio Yaryour, Hosp de Clínicas Facultad de Medicina UBA, Buenos Aires, Argentina; Carlos Reyes Toso, Lab Fisiopatología CV Facultad de Medicina UBA, Buenos Aires, Argentina
- P229 **Treatment And Eradication Of *Helicobacter Spp.* In TGR(mREN2)<sup>27</sup> Transgenic Rat Breeding Colony Does Not Alter Hypertensive Phenotype.**  
**Wayne Graham**, Wake Forest Sch of Med, Winston-Salem, NC; Nildris Cruz-Diaz, Wake Forest Sch of Med, Winston Salem, NC; Azeez Aileru, East Carolina Univ, Greenville, NC; Erin L Mitchell, Wake Forest Sch of Med, Winston-Salem, NC; Debra I Diz, WAKE FOREST SCHOOL OF MEDICINE, Winston-salem, NC
- P230 **Hypertensive Rats Show Increased Expression Of Flavin Monooxygenases And Diminished Hypertensive Response To Trimethylamine, A Gut Bacterial Product And An Industry Air Pollutant**  
**Marek Konop**, Marta Gawryś-Kopczyńska, Mateusz Szudzik, Mateusz Rybka, Łukasz Mazurek, Marcin Ufnal, Medical Univ of Warsaw, Warsaw, Poland
- P231 **Prevalence Of Comorbid Hypertension Among Hospitalized Patients With Cancer: Results From U.s. Population-based Inpatient Database**  
**Chanhyun Park**, Sola Han, Kathryn Litten, The Univ of Texas at Austin, Austin, TX; Boon Ng, Univ of Central Florida, Orlando, FL

## PS.02.08 Neurogenic Mechanisms 1

- P232 **Endothelin B Receptor Modulation Of Diurnal Blood Pressure Amplitude During High Salt Diet**  
**Bryan Becker**, Univ of Alabama Birmingham, Birmingham, AL; David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL
- P233 **Cardiac Regulator Of G Protein Signaling-4 Upregulation Protects Against FFAR3-mediated Inflammation And Sympathetic Hyperactivity**  
**Natalie Cora**, Alexandra Carbone, Nova Southeastern Univ, Fort Lauderdale, FL; Malka Suster, Jordana Borges, Nova Southeastern Univ, Fort Lauderdale, FL; Krysten Ferraino, Victoria Desimine, James A Haley VA Hosp, Tampa, FL; Jennifer Maning, Northwestern, Chicago, IL; Anastasios Lymperopoulos, NOVA SOUTHEASTERN UNIV, Fort Lauderdale, FL
- P234 **Arterial Hypertension, Insulin Resistance And Depressive-like Behavior In *Crtc1*-deficient Mice**  
Karoline Morhenn, Anika Seniuk, **Heimo Ehmke**, UKE, Hamburg, Germany
- P235 **Relationship Between Skin Sympathetic Nerve Activity And Nocturnal Non-dipping Blood Pressure In Patients With Postural Orthostatic Tachycardia Syndrome**  
**Xiao Liu**, Carine Rosenberg, Jewel N. Reaso, Cedars-Sinai Medical Ctr, Los Angeles, CA; Xiaochun Li, Indiana Univ Sch of Medici, Indianapolis, IN; Florian Rader, Peng-Sheng Chen, Cedars-Sinai Medical Ctr, Los Angeles, CA

## PS.02.09 Oxidative Stress, Inflammation, Immunity and Cytokines 1

- P236 **Role Of Axl In Target Organ Inflammation And Damage Due To Hypertensive Aortic Remodeling**  
**Wei Chen**, Vanderbilt Univ Medical Ctr, Nashville, TN; Justin P Van Beusecum, MUSC, Charleston, SC; Liang Xiao, Kidney Disease Ctr, the First Affiliated Hosp, Coll of Med, Zhejiang Univ, Zhejiang Province, P.R.China, Zhejiang Province, China; David Patrick, Kidney Disease Ctr, the First Affiliated Hosp, Coll of Med, Zhejiang Univ, Zhejiang Province, P.R.China, Zhejiang Province, China, Nashville, TN; Mingfang Ao, Vanderbilt Univ medical Cente, Nashville, TN; Shilin Zhao, VANDERBILT Univ Medical Ctr, Nashville, TN; Cristina Cavinato, Yale Univ, New Haven, CT; Alexander W. Caulk, Medtronic, New Haven, CT; Jay D. Humphrey, Yale Univ, New Haven, CT; David G Harrison, Vanderbilt Univ Medical Ctr, Nashville, TN

- P237 **Mitochondrial GCN5L1 Promotes CypD Acetylation, Oxidative Stress, Endothelial Dysfunction And Hypertension**  
**Sergey Dikalov**, Liliya Tkachuk, Mingfang Ao, Daniel Fehrenbach, Vanderbilt Univ Medical Ctr, Nashville, TN; Michael Sack, Natl Heart, Lung, and Blood Inst, NIH, Bethesda, MD; Anna Dikalova, Vanderbilt Univ Medical Ctr, Nashville, TN
- P238 **High Glucose Induces Interleukin-1 $\beta$  Synthesis In Renal Tubular Cells By Suppressing Autophagy**  
**Jorge F Giani**, Luciana C Veiras, Ellen Bernstein, Duoyao Cao, Cedars-Sinai Medical Ctr, Los Angeles, CA; Zakir Khan, Kenneth E Bernstein, Cedars-Sinai Medical Ctr, West Hollywood, CA
- P239 **Angiotensin II-Induced Memory Gamma Delta T Cells Sensitize Mice To A Mild Hypertensive Stimulus**  
**Pierre Paradis**, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Kevin Comeau, McGill Univ, Montreal, QC, Canada; Ernesto L Schiffrin, SMBD JEWISH GENERAL HOSP, Montreal, QC, Canada
- P257 **Interleukin-23 Receptor Deficiency Increased Interferon-gamma Producing T Cells And Potentiated Blood Pressure Elevation In Angiotensin II-infused Mice**  
**Pierre Paradis**, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Brandon Shokoples, Lady Davis Inst, Montreal, QC, Canada; Kevin Comeau, McGill Univ, Montreal, QC, Canada; Akinori Higaki, Ehime Prefectural Central Hosp, Matsuyama, Ehime, Japan; Nathanne dos Santos Ferreira, UNIVERSITY OF SAO PAULO, Ribeirao Preto, Brazil; Antoine Caillon, MCGILL UNIVERSITY, Montreal, QC, Canada; Olga Berillo, Lady Davis Inst, Montreal, QC, Canada; Mohamed Oukka, Dept of Immunology, Univ of Washington, Seattle, WA; Ernesto L Schiffrin, SMBD JEWISH GENERAL HOSP, Montreal, QC, Canada
- P258 **P2X7 Receptor Contributes To Angiotensin II-induced Hypertension, Vascular Injury And Cd8<sup>+</sup> T Cell Activation**  
**Pierre Paradis**, Lady Davis Inst for Medical Res, SMBD-Jewish General Hosp, McGill Univ, Montreal, QC, Canada; Brandon Shokoples, Olga Berillo, Lady Davis Inst, Montreal, QC, Canada; Kevin Comeau, McGill Univ, Montreal, QC, Canada; Akinori Higaki, Ehime Prefectural Central Hosp, Matsuyama, Ehime, Japan; Antoine Caillon, MCGILL UNIVERSITY, Montreal, QC, Canada; Nathanne dos Santos Ferreira, UNIVERSITY OF SAO PAULO, Ribeirao Preto, Brazil; Ernesto L Schiffrin, SMBD JEWISH GENERAL HOSP, Montreal, QC, Canada

## PS.02.10 Patient-Provider-Healthcare System Issues

- P240 **Nearly Half Of Participants In A Rural, Worksite-based Health Assessments Have Undiagnosed Or Uncontrolled Hypertension**  
**Linda P. Bolin**, Dept of Nursing Science - East Carolina Univ, Greenville, NC; Ashley Burch, Dept of Health Services and Information Management - East Carolina Univ, Greenville, NC; Paul Shackelford, Brody Sch of Med - East Carolina Univ, Greenville NC, NC; Elisabeth Lee, Paul Bolin, Brody Sch of Med - East Carolina Univ, Greenville, NC
- P242 **Psychological Distress Related To Hypertension Diagnostic Testing And Diagnosis** **Beverly B Green**, Kaiser Permanente Washington, Seattle, WA; Melissa L Anderson, Kaiser Permanente Washington Health Res Inst, Seattle, WA; Karen L Margolis, HEALTHPARTNERS INSTITUTE, Minneapolis, MN; Jennifer B McClure, Kaiser Permanente Washington Health Res Inst, Seattle, WA
- P243 **Innovative Care Team Design: An Original Approach To Optimize Patient Outcomes With Our RN-pharmacist Led Hypertension Clinic**  
**Jordan Overstreet**, Bozeman Health, Bozeman, MT; Sonja Clausen, Bozeman, MT; Keven J. Comer, Angela Jennings, Bozeman Health, Bozeman, MT

## PS.02.11 Renal Hemodynamics, Tubular Transport, Salt, Renovascular Hypertension

- P244 **Tubular Sites Of Mtorc2 Inhibition Of Sodium Transport In Dahl Salt-sensitive Rats.**

**Allen W Cowley**, Chun Yang, Olena Isaeva, Satoshi Shimada, Terry Kurth, Megan Stumpf, Alison J Kriegel, Ranjan K Dash, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI

**P245 Catheter-based Radiofrequency Renal Denervation In Normotensive Pigs Leads To Long-term Pathological Changes In Renal Nerves**

**David P Lee**, Stanford Univ Sch of Med, Stanford, CA; David E Kandzari, PIEDMONT HEART INST, Atlanta, GA; Stefan Tunev, Medtronic, Santa Rosa, CA; Markus P Schlaich, UNIVERSITY OF WESTERN AUSTRALIA, Perth, Australia; Alope Finn, CVPath, Gaithersburg, MD; Julie TRUDEL, Medtronic, Santa Rosa, CA; Andrew Sharp, Hosp of Wales, Cardiff, United Kingdom

**P246 The Role Of The Renal Nerves On Mechanisms Of Proteinuria In Renovascular Hypertension**

**Amanda Costa Veiga**, UNIFESP, Sao Paulo, Brazil; Rodrigo Pacheco Silva-Aguiar, Celso Caruso-Neves, UFRJ, Rio de Janeiro, Brazil; Cássia Marta Bergamaschi, Ruy Ribeiro Campos Junior, UNIFESP, Sao Paulo, Brazil; Ana Acácia de Sá Pinheiro, UFRJ, Rio de Janeiro, Brazil; Erika Emy Nishi, UNIFESP, Sao Paulo, Brazil

**P247 Altered Renal Sodium Transporters Expression Is Associated With Cholinergic-mediated Salt Sensitive Hypertension In Young Spontaneously Hypertensive Rats**

**Nandita Raikwar**, Univ of Iowa, Iowa City, IA; Trever Maiers, Iowa City, IA; Sailesh Harwani, Univ of Iowa Hosp, Iowa City, IA

### PS.02.12 Gender Differences and Sex Hormones

**P248 Estrogen Replacement Mitigated Blood Pressure Elevation Via Suppression Of Sodium Cotransporter In Angiotensin Ii-infused Ovariectomized Female Rats**

**Yang Gyun Kim**, Kyung Hee Univ, Seoul, Korea, Republic of; Minhae Cho, Univ of Memphis, Memphis, TN; Ju Young Moon, Sang Ho Lee, Kyung Hee Univ, Seoul, Korea, Republic of

**P250 Targeting The Thrombospondin-CD47 Axis Attenuates Blood Pressure And Renal Injury In Female Hypertensive (mRen2)27 Rats**

Jessica Mackert, Adam Wilson, Wake Forest Sch Med, Winston Salem, NC; Nildris Cruz-Diaz, Wake Forest Sch of Med, Winston Salem, NC; Ana C Melo, **Mark C Chappell**, David Soto-Pantoja, Wake Forest Sch Med, Winston Salem, NC

### PS.02.13 Renin-Angiotensin System

**P251 Assay Performance And System Compatibility For RAAS Triple-A Analysis In Hypertension Profiling**

**Marko Poglitsch**, Attoquant Diagnostics, Vienna, Austria; Giulio Mengozzi, Univ of Torino, Torino, Italy; Scott Stanley, Michael Hedge, Univ of Kentucky, Lexington, KY; Oliver Domenig, Uwe Schmidt, Attoquant Diagnostics, Vienna, Austria; Antonello Nonnato, Fabio Settanni, Federico Ponzetto, Univ of Torino, Torino, Italy; Robin C Shoemaker, Univ of Kentucky, Lexington, KY

**P252 Differential Expression Of ACE2, Nprilysin And ACE In Extracellular Vesicles Isolated From Human Urine**

**Mark C Chappell**, Liliya M Yamaleyeva, Wake Forest Sch of Med, Winston Salem, NC

### PS.02.14 SARs-CoV-2/COVID19

**P253 Delta And Omicron Variants Of SARS-Cov-2 Do Not Stimulate ACE2 Conversion Of Ang II To Ang-(1-7)**

**Mark C Chappell**, WAKE FOREST SCHOOL MEDICINE, Winston Salem, NC

**P254 Effect Of Covid-19 Infection On Qtc Prolongation**

**Isaac Alsallamin**, Ewelina Skomorochow, Rami Musallam, Rusina Karia, St Vincent charity Medical Hosp, Cleveland, OH

**P255 STUDY OF THE SEVERITY OF COVID-19 IN HYPERTENSIVE PATIENTS IN PRIMARY CARE, IN SPAIN. PRELIMINARY RESULTS.**

Jose Abellan-Aleman, Maravillas Sanchez-Macarro, UNIVERSIDAD CATÓLICA DE MURCIA, Murcia, Spain; Manuel Ángel Gómez-Marcos, INSTITUTO DE INVESTIGACIÓN BIOMÉDICA, Salamanca, Spain; Rafael Crespo, DIRECCIÓN DE ATENCIÓN PRIMARIA, Logroño, Spain; Fernando García-Romanos, CENTRO DE SALUD SANTA CATALINA, Palma de Mallorca, Spain; Francisco Valls-Roca, CENTRO DE SALUD DE BENIGANIM, Valencia, Spain; Francisco Fuentes, HOSPITAL UNIVERSITARIO REINA SOFÍA, Córdoba, Spain; Jesús Iturralde, UNIDAD DE ATENCIÓN PRIMARIA LA HABANA-CUBA, Vitoria, Spain; Ángeles Velasco, CENTRO DE SALUD SAN ANDRÉS, Murcia, Spain; Alcibiades Díaz-Vera, UNIVERSIDAD PÚBLICA DE NAVARRA, Pamplona, Spain; Javier Sobrino, FUNDACIÓN HOSPITAL DEL ESPÍRITU SANTO, Barcelona, Spain; **Javier Nieto**, HOSPITAL GENERAL UNIVERSITARIO DE CIUDAD REAL, Ciudad Real, Spain; On behalf of the Hypertension-Covid-19, Study Investigators, ., Spain

**P256 Higher Angiotensin Converting Enzymes Activities Are Observed In Covid-19 Positive Volunteers.**

**Lilian Caroline Goncalves Oliveira**, Andreia Cristina Febba, Lilian dos Santos, Lys Angela F Ribeiro, Nayara Azinheira Nobrega Cruz, Marina M Bello, Marcos A Cenedeze, Helio Tedesco-Silva Jr., José O Medina-Pestana, Univ Federal de Sao Paulo, Sao Paulo, Brazil; Dulce E Casarini, UNIVERSIDADE FEDERAL DE SAO PAULO, Sao Paulo, Brazil

## **Poster Session 3**

### **PS.03.01 Blood Pressure Monitoring 2**

**P300 Patterns Of Adherence To Home Blood Pressure Monitoring Among Men And Women In The Electronic Framingham Heart Study**

**Tenes J Paul**, Apurv Soni, Univ of Massachusetts Chan Medical Sch, Worcester, MA; Chathurangi H Pathiravasan, Boston Univ, SPH, Boston, MA; Jean-Claude Asaker, Jordy Mehawej, Andreas Filippaios, Univ of Massachusetts Chan Medical Sch, Worcester, MA; Yuankai Zhang, Boston Univ, Boston, MA; Katherine Sadaniantz, Ziyue Wang, Univ of Massachusetts Chan Medical Sch, Worcester, MA; Emelia J Benjamin, BOSTON UNIVERSITY SCHOOL OF MEDICINE, Brookline, MA; Chunyu Liu, Boston Univ, Boston, MA; Honghuang Lin, Univ of Massachusetts Chan Medical Sch, Worcester, MA; Joanne M Murabito, BOSTON UNIVERSITY SCHOOL OF MEDICINE, Framingham, MA; David D McManus, Lara Kovell, Univ of Massachusetts Chan Medical Sch, Worcester, MA

**P301 The Proportion Of Physician Notes Addressing Elevated Blood Pressures Varies Dramatically Across Internal Medicine Specialties**

Samuel Zetumer, Philip Polgreen, Manish Suneja, **Linnea Polgreen**, UNIVERSITY OF IOWA, Iowa City, IA

**P302 Efficacy Of A Digital Hypertension Self-management And Lifestyle Coaching Program In Reducing Blood Pressure Across Sex, Language And Racial Groups**

**Jenn Roberts**, Brian Roach, Tomer Gazit, Shirley Mark, Hello Heart, Menlo Park, CA; Sanjeev Aggarwal, Beaumont Health, Birmingham, MI

**P303 The Impact Of Body Position On Blood Pressure Measurements In Pregnant People**

Mark K Santillan, UNIVERSITY IOWA CARVER COLL MED, Iowa City, IA; Grace E Drinane, Ally Karras, Madeleine Holm, Sydney Pearl, Daniel Zagoren, Madeleine Hodgson, Lara Baker, UNIVERSITY OF IOWA, Iowa City, IA; Monica Myers, Gurnee, IL; Maria Werner Anderson, Molly Brennan, **Donna A Santillan**, UNIVERSITY OF IOWA, Iowa City, IA

**P304 Persistent Use Of Aktiia 24/7 Blood Pressure Monitor Is Associated With Lower Blood Pressure In Hypertensive Patients**

Josep Sola, David Perruchod, Meritxell Cortes, Aktiia, Neuchatel, Switzerland; Jay Pandit, Scripps Health, La Jolla, CA; Melvin D Lobo, Barts Blood Pressure Ctr of Excellence, London, United Kingdom; Gregoire

Wuerzner, CHUV, Lausanne, Switzerland; Naomi D Fisher, Brigham and Women's Hosp, Boston, MA; **Jay Shah**, Mayo Clinic, Scottsdale, AZ

- P305 MACHINE LEARNING DETECTS ASSOCIATIONS BETWEEN RETINA FEATURES AND BLOOD PRESSURE STATUS IN RICE DIET PROGRAM PATIENTS**  
**Romeo Sommerfeld**, Cedric Lorenz, Hasso Plattner Inst and the Univ of Potsdam, Potsdam, Germany; David Lopez, Anthony Kuo, Duke Univ, Durham, NC; Benjamin Bergner, Hasso Plattner Inst and the Univ of Potsdam, Potsdam, Germany; Friedrich Cameron C Luft, EXPERIMENTAL AND CLINICAL RESEARCH, Berlin; Christoph Lippert, Hasso Plattner Inst and the Univ of Potsdam, Potsdam, Germany; Ingrid Daubechies, Francis Neelon, Duke Univ, Durham, NC; Philip Klemmer, Univ of North Carolina at Chapel Hill, Chapel Hill, NC; Scott Sanoff, Pao-Hwa Lin, Duke Univ, Durham, NC

### PS.03.02 BP Control and Adherence to Treatment 2

- P306 A Specific 3-month Nursing Program After Laboratory Detection Of Non-adherence To Medication In Uncontrolled Hypertension Improves Adherence And Blood Pressure Control (ATHAN Trial)**  
**Anna Oliveras**, Susana Vazquez, Carme Camps, Hosp del Mar, Barcelona, Spain; Victoria Vega, Laboratori de Referència de Catalunya, Barcelona, Spain; Ernest Vinyoles, CAP La Mina, Sant Adria de Besos; Laia Fontdevila, Anna Faura, Hosp del Mar, Barcelona, Spain; Marta Crespo, Julio Pascual, Juan José Hernández, Laboratori de Referència de Catalunya, Barcelona, Spain
- P307 A Case Of Dual Tachycardia Presenting With Heart Failure Exacerbation**  
**Abdul-Fatawu Osman**, Ebubechukwu Ezeh, Shakeel Muhammad Jamal, Ali Sheikh, Michigan State Univ - Sparrow Hosp, Lansing, MI
- P308 Comparative Cost-effectiveness Of Hypertension Treatment Guidelines In US Adults**  
**Joanne Penko**, UCSF, San Francisco, CA; Brandon K Bellows, Columbia Univ, New York, NY; Susan Hennessy, UCSF, San Francisco, CA; Dhruv S Kazi, BIDMC, Boston, MA; Pamela Coxson, Univ of California San Francisco, San Francisco, CA; Kirsten Bibbins-Domingo, UNIVERSITY CALIFORNIA SAN FRANCISCO, San Francisco, CA; Andrew E Moran, COLUMBIA UNIVERSITY, New York, NY
- P309 Long Term Outcomes From A Resistant Hypertension Program**  
**John Szawaluk**, Cheryl Bartone, Kelly Clark, Shaoming Huang, Eugene S Chung, The Christ Hosp, Cincinnati, OH
- P310 Defining Systolic Blood Pressure Normative Values In Hospitalized Pediatric Patients**  
**Amanda M. Uber**, Children's Hosp of Omaha, Omaha, NE; Jialin Han, Maria E. Montez-Rath, Stanford Univ, Stanford, CA; Abanti Chaudhuri, Stanford Univ, Sunnyvale, CA
- P311 Blood Pressure Control And Anti-hypertensive Drug Utilization Among Minorities In A Large Health Care System**  
**Ziad Zoghby**, Mayo Clinic, Rochester, MN; Sandra J Taler, Gary L Schwartz, Vesna D Garovic, MAYO CLINIC, Rochester, MN

### PS.03.03 Cardiac Hypertrophy and Dysfunction

- P312 High Potassium Intake Aggravates Cardiovascular Damage Accompanied By Premature Senescence In Hypertensive Apolipoproteine-ko Mice Under High Salt Diet**  
**Denada Arifaj**, Alexander Lang, Uniklinik Dusseldorf, Duesseldorf, Germany; Mina Yakoub, Experimental Nephrology, Dusseldorf, TX; Doron Argov, Masudur Rahman, Lydia Hering, Sebastian Temme, Uniklinik Dusseldorf, Duesseldorf, Germany; Lars Christian Rump, Univ Hosp of Dusseldorf, Dusseldorf, Germany; Norbert Gerdes, Univ Hosp Duesseldorf, Duesseldorf; Johannes Stegbauer, Heinrich-Heine Univ, Duesseldorf, Germany
- P313 Knockout Or Antagonism Of The Prostaglandin E2 Ep3 Receptor Is Protective In A Mouse Model Of Myocardial Infarction**



**Timothy Dean Bryson**, Henry Ford Health, Detroit, MI; DruAnne Maxwell, Wayne State Univ, Detroit, MI; David Taube, Jiang Xu, Edward Peterson, Pamela Harding, Henry Ford Health, Detroit, MI

**P314 Loss Of Set7 Prevents Isoproterenol-induced Heart Dysfunction**

Guilherme Lunardon, Tábatha de Oliveira Silva, Caroline Lino, Univ of Sao Paulo, Sao Paulo, Brazil; Yao Wei Lu, Harvard Medical Sch, Boston, MA; Juliane Miranda, Univ of Sao Paulo, Sao Paulo, Brazil; Paula Asprino, Sirio-Libanes Hosp, Sao Paulo, Brazil; Maria Claudia Irigoyen, Ana Paula Takano, Univ of Sao Paulo, Sao Paulo, Brazil; Maria Luiza Barreto-Chaves, UNIVERSITY OF SAO PAULO, Sao Paulo, Brazil; Da-Zhi Wang, Univ of South Florida, Tampa, FL; Amanda De Almeida Silva, **Gabriela P Diniz**, Univ of Sao Paulo, Sao Paulo, Brazil

**P315 Nogo-a Reduces CeramideDe NovoBiosynthesis To Protect From Heart Failure**

**Linda Sasset**, Onorina Manzo, Weill Cornell Med, New York, NY; Yi Zhang, Peking Univ, Beijing, China; Alice Marino, Luisa Rubinelli, Maria Antonietta Riemma, Weill Cornell Med, New York, NY; Madhavi Latha S. Chalasani, Dragos C. Dasoveanu, HSS, New York, NY; Fiorentina Roviezzo, Stanislovas Jankauskas, Univ of Naples, Naples, Italy; Gaetano Santulli, New York, NY; Mariarosaria Bucci, Univerisity Of Naples, Naples, Italy; Theresa Lu, HSS, New York, NY; Annarita Di Lorenzo, Weill Cornell Med, New York, NY

**P316 ANGIOTENSIN II-INDUCED LEFT VENTRICLE HYPERTROPHY AND DYSFUNCTION WERE EXAGGERATED BY P2RX7 KNOCKOUT BUT UNAFFECTED BY P2RX7 PHARMACOLOGIC BLOCKADE**

**Olga Berillo**, Brandon Shokoples, Kevin Comeau, Akinori Higaki, Antoine Caillon, Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L Schiffrin, SMBD JEWISH GENERAL HOSP, Montreal, QC, Canada

**PS.03.04 Genetics, Epigenetics and Epidemiology**

**P317 ANGIOTENSIN II INFUSION CAUSED EXPANSION OF ACTIVATED  $\delta$  NATURAL KILLER T CELLS IN MESENTERIC VESSEL PERIVASCULAR ADIPOSE TISSUE OF MICE**

**Olga Berillo**, Kevin Comeau, Antoine Caillon, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Séverine Leclerc, Res Ctr, Sainte-Justine Univ Health Ctr, Dept of Pediatrics, Univ of Montreal, Montreal, QC, Canada; Brandon Shokoples, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ahmad Mahmoud, Lady Davis Inst for Medical Res, Montréal, QC, Canada; Gregor Andelfinger, Res Ctr, Sainte-Justine Univ Health Ctr, Dept of Pediatrics, Univ of Montreal, Montreal, QC, Canada; Pierre Paradis, Lady Davis Inst for Medical Res, Montreal, QC, Canada; Ernesto L Schiffrin, SMBD JEWISH GENERAL HOSP, Montreal, QC, Canada

**P318 Blood Pressure And Cardiovascular Disease Mortality Among US Adults, 1999-2019**

**Tali Elfassy**, Julien Tremblay, Univ of Miami, Miami, FL; Charles A German, Univ of Chicago, Chicago, IL; Yelena Drexler, Univ of Miami, Miami, FL; Eugene Yang, Univ of Washington, Seattle, WA; Gabriel Contreras, Univ of Miami, Miami, FL

**P319 Genetic Interactions Between Novel Genes *Arhgef11* And *Cgn11* Are Involved In Hypertensive Chronic Kidney Disease**

Esinam Attipoe, Ashley Colleen Johnson, Agata Chandran, Wenjie Wu, **Michael R Garrett**, Univ of Mississippi Medical Ctr, Jackson, MS

**P320 Transgenic Cre Drivers For Harvesting Podocytes And Endothelial Cells From Dahl Salt-sensitive Rats**

Michael Grzybowski, Mark Vanden Avond, Kristie Usa, Jason Klotz, Medical Coll of Wisconsin, Milwaukee, WI; Oleg Palygin, Medical Univ of SC, Charleston, SC; Melinda R Dwinell, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI; Allen W Cowley Jr., MEDICAL COLLEGE WISCONSIN, Milwaukee, WI; Alexander Staruschenko, Univ of South Florida, Tampa, FL; Mingyu Liang, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI; **Aron M Geurts**, Medical Coll of Wisconsin, Milwaukee, WI

**P321 Hypertension-related Cardiovascular Mortality In Asian American Subgroups**

**Nilay S Shah**, Northwestern Univ, Chicago, IL; Daichi Shimbo, COLUMBIA UNIVERSITY, New York, NY; Paul Muntner, UNIVERSITY ALABAMA BIRMINGHAM, Birmingham, AL; Mark D Huffman, Washington Univ in St. Louis, Saint Louis, MO; Namratha Kandula, NORTHWESTERN UNIVERSITY, Chicago, IL;

Matthew Mefford, Kaiser Permanente, Pasadena, CA; Donald Lloyd-Jones, Kaiser Permanente, Pasadena, CA, Winnetka, IL; Sadiya Khan, Northwestern Univ, Chicago, IL

- P322 **2-year Morbidity And Mortality Due To Hypertensive Crisis In A Predominantly African American Population**  
**Frederick Andrew Waldron**, Newark Beth Israel Medical Ctr, Newark, NJ; Irina Benenson, Rutgers Univ, Newark, NJ; Patrick Hinfey, Shreni Zinzuwadia, Shelley Jones-Dillon, Jochena Dort, Newark Beth Israel Medical Ctr, Newark, NJ
- P323 **Direct Vascular Endothelial Actions Of Angiotensin II Via At<sub>1</sub>R And No Signaling Revealed By Intravital Multiphoton Microscopy.**  
Urvi Nikhil Shroff, Sachin Deepak, Audrey Izuhara, Janos Peti-Peterdi, **Georgina Gyarmati**, Univ of Southern California, Los Angeles, CA

### PS.03.05 Chronic Kidney Disease, Nitric Oxide Endothelin and Other Endothelial Factors

- P324 **Clinical Outcomes And 30-day Readmissions For Heart Failure With Preserved Ejection Fraction And Cardiorenal Syndrome: A Multicenter Database Analysis.**  
Layla Shanah, Tanveer Mir, Wayne State Univ, Detroit, MI; Mohammed Uddin, Detroit Medical Ctr, Detroit, MI; **Tanveer Hussain**, SummaHealth, Akron, OH; Tilachan Parajuli, Baptist Health System, Montgomery, AL; Zeenat Y Bhat, WAYNE STATE UNIVERSITY SCHOOL OF M, Detroit, MI
- P325 **Visit-To-Visit Blood Pressure Variability Is A Major Risk Factor For Renal Outcomes In Hypertensive Patients: Evidence From The 20-Year Follow-Up Of The Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT)**  
**Somayeh Rostamian**, Imperial Coll London, London, United Kingdom; Thomas Godec, Ajay K Gupta, Queen Mary Univ of London, London, United Kingdom; William Whiteley, Univ of Edinburgh, Edinburgh, United Kingdom; Judith Mackay, Andrew Whitehouse, Peter Sever, Imperial Coll London, London, United Kingdom
- P326 **Trimethylamine, A Gut Bacteria Metabolite And Air Pollutant, Increases Blood Pressure, Proteinuria And Markers Of Kidney Damage In Rats.**  
**Marcin Ufnal**, Klaudia Maksymiuk, Mateusz Szudzik, Dawid Chabowski, Medical Univ of Warsaw, Warsaw, Poland

### PS.03.06 Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome 2

- P327 **Cardiovascular Risk In People Living With Hiv With Less Than 5 Years Of Use Of Antiretrovirals**  
**Edjane Silva Araujo**, UFMA, SAO LUIS, Brazil; Claudia Arrais, Nilviane Pires, UFMA, SAO LUIS, Brazil; Allan Kardec Barros, UNIVERSIDADE FEDERAL DO MARANHAOO, sao luis, Brazil; Cindy Lima Pereira, Carlos Magno Sousa Junior, UNIVERSIDADE FEDERAL DO MARANHAOO, sao luis, Brazil, Saint louis, Brazil; Ewaldo Santana, Aldicléya Lima Luz, UFMA, SAO LUIS, Brazil
- P328 **Statin Reduces Long-term All-cause Mortality In Dialysis Patients With Atherosclerotic Cardiovascular Disease**  
**Myunhee Lee**, Dae-Won Kim, DAEJEON ST MARY HOSPITAL, Daejeon, Korea, Republic of
- P329 **Moderate Dietary Sodium Restriction Does Not Alter Insulin Sensitivity Or Secretion In Metabolic Syndrome**  
Taopheeq A Mustapha, Nashville, TN; Robert Manning, **James M Luther**, VANDERBILT UNIV MED CTR, Nashville, TN
- P330 **Nogo-B Regulates Vascular Sphingolipids To Impact Hepatic Gluconeogenesis And Blood Pressure**  
**Luisa Rubinelli**, WEILL CORNELL MEDICINE, New York, NY; Linda Sasset, Onorina Manzo, Weill Cornell Med, New York, NY; Ilaria Del Gaudio, Medical Univ of Graz, Graz; Alice Marino, Weill Cornell Med, New York, NY; Jin Sungho, Columbia Univ, New York, NY; Baran Ersoy, Weill Medical Coll of Cornell, New York, NY; Sabrina Diano, Columbia Univ, New York, NY; Annarita Di Lorenzo, Weill Cornell Med, New York, NY

## PS.03.07 Hypertension and Aging 2

- P331 **Racism Associated With Blood Pressure Risk For Renal Injury In African American Males** **Mildred A Pointer**, HOWARD UNIVERSITY, Washington, DC; Thais Holanda, Dwayne Muhammad, North Carolina Central Univ, Durham, NC; Claudia Alberico, Nikia Laurie, Durham, NC; Deepak Kumar, North Carolina Central Univ, Durham, NC
- P332 **The Hypertension Induced By Clozapine Is Related With Increased Renal Sodium Transporters In Mice** **Zhiyun Ren**, The Core Lab for Clinical Res, Affiliated BenQ Hosp of Nanjing Medical Univ, Nan Jing, China; Weiwan Wang, Chenyang Zhang, BenQ Hosp, Nanjing; Xiaoyan Wang, GEORGE WASHINGTON UNIV, Washington, DC
- P333 **Influence Of RSK2 On Blood Pressure In Aging** **Yves T Wang**, Univ of Rochester, Rochester, NY; Ramon Ayon, Charlottesville, VA; Thu H Le, Univ of Rochester, Rochester, NY; Avril V. Somlyo, Univ of Rochester, Rochester, NY, Charlottesville, VA
- P334 **Impairment Of Cognitive Ability In Middle-aged Renin Hypertensive Transgene Mice** Shuzhen Chen, MARSHALL UNIVERSITY, Huntington, WV; Venkata Polaki, Wright State UNIVERSITY, Dayton, OH; Harshal Sawant, MARSHALL UNIVERSITY, Huntington, WV; Ji C Bihl, Marshall Univ, Huntington, WV; **Jinju Wang**, MARSHALL UNIVERSITY, Huntington, WV
- P335 **Contribution Of The Gut To The Salt-sensitive Phenotype Of Dahl S Rats Is Reflected In Increased Sodium Absorption In The Distal Colon** Caullin B Keith, UNIVERSITY OF TOLEDO, Toledo, OH; Nicole Bearss, Univ of Toledo, Toledo, OH; Bina Joe, Univ of Toledo HSC, Toledo, OH; **Jasenka A Zubcevic**, UNIVERSITY OF TOLEDO, Toledo, OH

## PS.03.08 Neurogenic Mechanisms 2

- P336 **Effects Of Renal Denervation Associated With Renin-angiotensin System Blockade In A Rat Model Of Chronic Kidney Disease** **ERIKA E NISHI**, Sao Paulo Sch of Med UNIFESP, Sao Paulo, Brazil; Amanda Veiga, UNIFESP, Sao Paulo, Brazil; Maycon I Milanez, Sao Paulo Sch of Med UNIFESP, Sao Paulo, Brazil; Ruy R Campos Jr., UNIFESP, Sao Paulo, Brazil; Cassia Bergamaschi, Sao Paulo Sch of Med UNIFESP, Sao Paulo, Brazil
- P337 **Valsalva Maneuver And Detection Of Late-onset Orthostatic Hypotension** Jin-Woo Park, Korea Univ Med, Seoul, Korea, Republic of; **Luis Enrique Okamoto**, Vanderbilt Univ Medical Ctr, Nashville, TN; Seong-Hwan Kim, Seol-Hee Baek, Korea Univ Med, Seoul, Korea, Republic of; Joo Hye Sung, Korea university, seoul, Korea, Republic of; Alfredo Gamboa, VANDERBILT UNIVERSITY MEDICAL CENTR, Nashville, TN; Cyndya A Shibao, VANDERBILT UNIV. MEDICAL CENTER, Nashville, TN; Andre Diedrich, VANDERBILT MEDICAL CENTER, Nashville, TN; Byung-Jo Kim, Korea Univ Med, Seoul, Korea, Republic of; Italo Biaggioni, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN
- P338 **High Sodium Intake - Effects On Afferent Renal Nerve Activity** **Kristina Rodionova**, Univ Erlangen, Erlangen, Germany; Tilmann Ditting, Univ Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany; Peter Linz, Karl F Hilgers, Univ Erlangen, Erlangen, Germany; Christian Ott, Univ Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany; Roland E Schmieder, Mario Schiffer, Kerstin Amann, Univ Erlangen, Erlangen, Germany; Roland Veelken, Univ Erlangen, Paracelsus Private Medical Sch Nuremberg, Erlangen, Germany
- P339 **A Possible Role Of Neuronal Adam17 In The Development Of Hypertension And Related Cognitive Impairment By Altering The Microenvironment** Jiawei Wang, Shenglan Yuan, Hanxue Wu, **Jiayi Xu**, Xi'an Jiaotong Univ, Xi'an, China

## PS.03.09 Non-Pharmacological Therapy (Alternative Medicine; Diet; Physical Activity)

P340 **Associations Of Life'S Simple 7 And 10-year Change In Load-dependent Arterial Stiffness: The Multi-ethnic Study Of Atherosclerosis (mesa)**  
Ryan Pewowaruk, William S. Middleton Veterans Hosp, Madison, WI; Claudia E Korcarz, UNIVERSITY OF WISCONSIN, Madison, WI; Moyses Szklo, JOHNS HOPKINS UNIV, Baltimore, MD; Philip Greenland, FEINBERG SCH OF MEDICINE, Chicago, IL; Yacob Tedla, Vanderbilt Univ Medical Cente, Nashville, TN; **Adam Gepner**, William S. Middleton Veterans Hosp, Madison, WI

P341 **BLOOD PRESSURE RESPONSES OF RICE DIET PROGRAM PATIENTS WITH MALIGNANT HYPERTENSION**  
**Pao-Hwa Lin**, David Lopez, Yi-Ju Li, Duke Univ, Durham, NC; Friedrich Cameron C Luft, EXPERIMENTAL AND CLINICAL RESEARCH, Berlin; Francis Neelon, Duke Univ, Durham, NC; Philip Klemmer, Duke Univ, Durham, NC, Chapel Hill, NC; Anthony Kuo, Duke Univ, Durham, NC, Chapel Hill, NC, Durham, NC; Scott Sanoff, Duke Univ, Durham, NC

P342 **Virtual Cardiac Rehabilitation For Heart Failure - Real World Experience Of Medication Adherence, Blood Pressure Control And Exercise Tolerance**  
**ALBEN SIGAMANI**, Pallav Singh, NUMEN HEALTH, BANGALORE, India

### PS.03.10 Oxidative Stress, Inflammation, Immunity and Cytokines 2

P343 **Adaptive Immune Mechanisms Exacerbate Cholinergic Activation-mediated Hypertension In Dahl Salt-sensitive Rats**  
**Nandita Raikwar**, Univ of Iowa, Iowa City, IA; Trever Maiers, Iowa City, IA; Sailesh Harwani, Univ of Iowa Hosp, Iowa City, IA

P344 **High Fat Diet Increases Inflammatory Gene Expression In Perivascular Adipose Tissue And Mesenteric Lymph Nodes Prior To Hypertension In Dahl S Rats**  
Yining Jin, Omar Kana, Hannah Garver, Luca Kaiser, Stephanie W Watts, Gregory D Fink, Rance Nault, Sudin Bhattacharya, **Cheryl E Rockwell**, Michigan State Univ, East Lansing, MI

P345 **Inhibition Of Nuclear Receptor Retinoid-related Orphan Receptor  $\gamma$ t Attenuates Interleukin-17A Production And Ameliorates Angiotensin II-induced Neuroinflammation And Hypertension In Rats**  
**Yang Yu**, Baojian Xue, Qing Chen, Nafis Md Irfan, Alan K Johnson, Shunguang Wei, Univ of Iowa, Iowa City, IA

### PS.03.11 Pregnancy, Preeclampsia and Developmental Programming

P346 **Cardiac Arrest During Delivery Hospitalization And Severe Hypertensive Disorders Of Pregnancy, United States, 2017-2019**  
**Nicole D. Ford**, Carla L. DeSisto, Romeo R. Galang, Elena V Kuklina, Laurence Sperling, Jean Y. Ko, CDC, Atlanta, GA

P347 **Rural/urban Differences In Anti-hypertensive Medication Use Among Women Of Reproductive Age With Hypertension: Behavioral Risk Factor Surveillance System, 2019** **Donald K Hayes**, Jing Fang, Lasha S Clarke, Nicole Ford, Cheryl L Robbins, Elena V Kuklina, CDC, Atlanta, GA; Fleetwood Loustalot, CTRS FOR DISEASE CONTROL, Atlanta, GA

P349 **Decreased Complement Component C3 In Islets Is Associated With A Reduction In Pancreatic Beta Cell Area In Rat Offspring Following Chronic Placental Ischemia-induced Hypertension**  
**Jean F Regal**, Melissa A Cedars, Kate M Root, Margaretta E Huchthausen, Univ of Minnesota, Duluth, MN; Brian Akhaphong, Emilyn U Alejandro, Univ of Minnesota, Minneapolis, MN

P350 **Profiling Of The Renin Angiotensin Aldosterone System In High Risk Human Pregnancy** **Robin Shoemaker**, UNIVERSITY OF KENTUCKY, Lexington, KY; Marko Poglitsch, ATTOQUANT, Vienna; Hong Huang, Univ of Kentucky, Lexington, KY; Katherine Vignes, Neil Patel, UNIVERSITY OF KENTUCKY,

Lexington, KY; John Anthony Bauer, Univ of Kentucky Coll Med, Lexington, KY; John O'Brien, Univ of Kentucky Coll Med, Lexington, KY, Lexington, KY

### PS.03.12 Resistant Hypertension

**P351 Prognosis Of Different Forms Of Resistant Hypertension**

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**P352 Rates Of Diagnostic Work-up By Magnetic Resonance Imaging Of The Abdomen For Patients With Resistant Hypertension**

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**P353 SOME ATYPICAL PRESENTATIONS OF HYPERALDOSTERONISM**

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### PS.03.13 Vascular Biology, Remodeling, Dysfunction, Stiffness

**P354 Pi3kg Signalling Is Crucial For Regulating The Cross Talk Between Cd8 T Lymphocytes And Vasculature In Hypertension**

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**P355 Involvement Of Nlrp3 Inflammasome In Vascular Injury-induced Neointimal Formation And PDGF-BB Stimulated Monocyte Retention And Pyroptosis In Arterial Smooth Muscle Cells**

**Yunting Wang**, Yang Zhang, Xiang Li, UNIVERSITY OF HOUSTON, Houston, TX

**P356 Cutaneous Vasodilation May Contribute To 5-ht-induced Hypotension In The Rat**

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