



American Heart Association.

Hypertension

The following list of ePosters will be available for viewing starting at 10:00 AM Central time, Monday, September 27 and available throughout all three days of the conference. Please be sure to visit the virtual poster hall!

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- P102 **Inhibition Of Mtor Decreases Angiotensin Ii-induced Steroidogenesis In Hac15 Cells**
Yusuf Ali, Univ of Mississippi Medical Ctr, Jackson, MS; Elise P Gomez-sanchez, U. MISSISSIPPI MEDICAL CENTER, Jackson, MS; Celso E Gomez-Sanchez, UNIV MISSISSIPPI MEDICAL CENTER, Jackson, MS
- P103 **A PATIENT'S 45 YEAR STORY AFTER 1 3/4 ADRENALECTOMY FOR PRIMARY ALDOSTERONISM DUE TO ADRENAL HYPERPLASIA: IMPROVED CONTROL WITH LOW NA DASH DIET.**
Clarence E Grim, High Blood Pressure Consulting, Stateline, NV; Paul Kabrna, The Patient, Barnoldswick BB18 5QU, United Kingdom
- P104 **Simultaneous Treatment With Ivabradine And Spironolactone Does Not Modify Hypertension-induced Myocardial Fibrosis In Dahl Salt-sensitive Rats**
Eduard I. Dedkov, Andrew T. Milcarek, Cooper Medical Sch of Rowan Univ, Camden, NJ

Antihypertensive Drugs and Pharmacology

- P106 **Development Of An Oral Drug Delivery System For The Cardio-protective Neuropeptide Alpha-calcitonin Gene Related Peptide**
Ambrish Kumar, Maelee G Williamson, Andrew Hess, Donald J DiPette, Jay D Potts, Univ of South Carolina Sch of Med, Columbia, SC
- P107 **Anti- Mir-510 In The Treatment Of Essential Hypertension By Using Hypertensive Rats**
Auxilia Preethi K, Sushmaa Chandralekha J.S, Durairaj sekar, Saveetha Inst of Medical and Technical Sciences, chennai, India
- P108 **Side Effects Of Initial Combination Versus Monotherapy For Patients With Hypertension**
Jaevin An, Kaiser Permanente Southern California, Pasadena, CA; Matthew Mefford, Kaiser Permanente, Pasadena, CA; Liang Ni, Kaiser Permanente Southern California, Pasadena, CA; Rong Wei, Kaiser Permanente So. California, Pasadena, CA; Hui Zhou, Kaiser Permanente So. California, Pasadena, CA, Pasadena, CA; Teresa N Harrison, KAISER PERMANENTE SOUTHERN CA, Pasadena, CA; Jeff Brettler, KAISER PERMANENTE SOUTHERN CA, Pasadena, CA, Los Angeles, CA; Paul Muntner, UNIVERSITY ALABAMA BIRMINGHAM, Birmingham, AL; Kristi Reynolds, KAISER PERMANENTE, Pasadena, CA
- P109 **A Promising Novel Hypertension Drug Candidate**
Haralambos Gavras, BOSTON UNIV MED CTR, Boston, MA; Joel Neutel, Orange County Res Ctr, Tustin, CA; Ronald J Elin, Univ of Louisville Sch of Med, Louisville, KY; Andrea Rosanoff, Ctr for

Magnesium Education and Res, Pahoia, HI; Rebecca B Costello, Ctr for Magnesium Education and Res, Pahoia, HI, Leesburg, VA; Jayashree Mani, Magique Biotherapeutics LLC, Ashburn, VA; Russell Jaffe, MAGique BioTherapeutics, LLC, Ashburn, VA

- P110 **Intravenous Hydralazine Effect On Blood Pressure Following Severe Inpatient Hypertension Development**
Lama Ghazi, Yale Univ, New Haven, CT; Fan Li, Eric Chen, Yale Univ, New Haven, CT; MICHAEL SIMONOV, New Haven; Yu Yamamoto, Aditya Biswas, New Haven, New Haven, CT; Jonathan Hanna, Tayyab Shah, Aldo J Peixoto, F. Perry Wilson, Yale Univ, New Haven, CT
- P111 **Comparative Efficacy Of Bisoprolol Compared To Other Selective Beta-1 Blockers In Patients With Hypertension - A Systematic Review And Meta-analysis Of Observational Studies**
Uday M Jadhav, MGM NEW BOMBAY HOSPITAL, New Mumbai, India; Tiny Nair, PRS Hosp, Trivandrum, India; SANDEEP BANSAL, VMMC and Safdarjung Hosp, New Delhi, India; Saumitra Ray, Vivekananda Inst of Medical Sciences, Kolkata, India

Blood Pressure Monitoring

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Mochammad Sja'bani, Mlati Study Group, Dept of Internal Med, Faculty of Med, Public Health, and Nursing, Univs Gadjah Mada, Yogyakarta, Indonesia; Lucky Aziza Bawazier, Dept of Internal Med, Faculty of Med, Univs Indonesia, Jakarta, Indonesia; Fredie Irijanto, Internal Med, Nephrology and Hypertension Devision, Dr Soeradji Tirtonegoro Hosp, Klaten, Central Java, Indonesia; Zulaela Zulaela, Faculty of Mathematics and Natural Sciences, Univs Gadjah Mada, Yogyakarta, Indonesia; Agus Widiatmoko, Dept of Internal Med, Faculty of Med and Health Sciences, Univs Muhammadiyah Yogyakarta, Yogyakarta, Indonesia; Abdul Kholiq, Faculty of Med and Health Sciences, Univs Muhammadiyah Yogyakarta, Yogyakarta, Indonesia; Yasuhiko Tomino, Medical, Medical Corp Group Showakai, Shijuku-ku, Tokyo, Japan
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Chitwan 44200, Nepal; Kiran Paudel, Inst of Med, Tribhuvan Univ, Kathmandu, Nepal; Santosh Poudel, NEPHA Gandaki Province, Nepal, Pokhara, Nepal; Dinesh Neupane, Welch Ctr for Prevention, Epidemiology and Clinical Res, Johns Hopkins Bloomberg Sch of Public Health, Baltimore, MD

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Willie M Abel, UNIV NORTH CAROLINA AT CHAR, Charlotte, NC
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PRETO, Sao Jose Rio Preto, Brazil; Raul Cavalcante Maranhao, HEART INSTITUTE, Sao Paulo, Brazil; **Jose F Vilela-Martin**, STATE MEDICAL SCHOOL S J RIO PRETO, Sao Jose Rio Preto, Brazil

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Chronic Kidney Disease, Nitric Oxide Endothelin and Other Endothelial Factors

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Diabetes, Lipids, Obesity, Nutrition, Insulin Resistance and Metabolic Syndrome

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- Mohammed M. Uddin**, Tarec Micho Ulbeh, Tanveer Mir, Joseph Sebastian, Detroit Medical Ctr, Wayne State Univ, Detroit, MI; Qasim Jehangir, St. Joseph Mercy Oakland, Pontiac, MI; Priyadarshini Dixit, Saint Joseph Mercy Oakland Hosp, Pontiac, MI, Pontiac, MI; Waqas Qureshi, Univ of Massachusetts, Shrewsbury, MA; Ayman Soubani, Detroit Medical Ctr, Detroit Medical Ctr, Wayne State Univ, Detroit, MI; Luis Afonso, Detroit Medical Ctr, Wayne State Univ, Detroit, MI
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Mohammed MIMOUNI, Solene DARLET, Montpellier Univ, Montpellier, France; Bernard F JOVER, Univ Montpellier, Montpellier, France; Laura JEANSON, Montpellier Univ, Montpellier, France; Marie-Pierre BLANCHARD, BIOCAMPUS Montpellier UMS3426, Montpellier, France; Anne-Dominique LAJOIX, **Caroline DESMETZ**, Montpellier Univ, Montpellier, France
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Eryn Matich, Univ of Arkansas for Medical Sciences, Little Rock, AR; Namvar Zohoori, ARKANSAS DEPARTMENT OF HEALTH, Little Rock, AR; L. Joseph Su, Univ of Arkansas for Medical Sciences, Little Rock, AR; Ping-Ching Hsu, Univ of Arkansas for Medical, Little Rock, AR
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Mariana D Passadore, Nayara A Cruz, Univ Federal de Sao Paulo, Sao Paulo, Brazil; Mariana Z Bocato, Univ de Sao Paulo, Sao Paulo, Brazil; Leonardo A Ferreira, Univ Federal de Sao Paulo, Sao Paulo, Brazil; Jose Geraldo Mill, Univ Federal do Espirito Santo, Sao Paulo, Brazil; Fernando Barbosa Jr, Univ de Sao Paulo, Sao Paulo, Brazil; Dulce E Casarini, UNIVERSIDADE FEDERAL DE SAO PAULO, Sao Paulo, Brazil; Lilian Caroline G Oliveira, Univ Federal de Sao Paulo, Sao Paulo, Brazil

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Anna Oliveras, Susana Vazquez, Isabel Galceran, Alberto Goday, Maria Vera, Hosp del Mar, Barcelona, Spain; Maria José Soler, Hosp Vall d'Hebrón, Barcelona, Spain; David Benaiges, Marta Crespo, Julio Pascual, Hosp del Mar, Barcelona, Spain; Marta Riera, IMIM, Barcelona
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Paramita Pati, Univ of Alabama Birmingham, Birmingham, AL; Megan K Rhoads, Univ of Alabama at Birmingham, Birmingham, AL; Rachel Meek, Univ of Alabama Birmingham, Birmingham, AL; Jackson Colson, David M Pollock, Jennifer Pollock, Univ of Alabama at Birmingham, Birmingham, AL
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Saki Maruyama, Kobe Women's Univ, Kobe, Japan; Yukiko Segawa, Osaka Seikei Coll, Osaka, Japan; Ayaka Harui, 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

Gender Differences and Sex Hormones

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Isabella M Kilanowski-Doroh, Tristen J Wong, Benard O Ogola, Nicholas Harris, Alec Horton, Murad Laradji, Tulane Sch of Med, New Orleans, LA; Sarah H Lindsey, Tulane Univ, New Orleans, LA
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Satomi Kagota, Sch of Pharmacy and Pharmaceutical Sciences & Inst for Bioscience, Mukogawa Women's Univ, Nishinomiya, Japan; Kana Maruyama-Fumoto, Kana Morikawa, Kazumasa Shinozuka, Sch of Pharmacy and Pharmaceutical Sciences, Mukogawa Women's Univ, Nishinomiya, Japan
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Baojian Xue, UNIVERSITY OF IOWA, Iowa City, IA; Yang Yu, Terry Beltz, Univ of Iowa, Iowa City, IA; Fang Guo, University of Iowa, Iowa City, IA; Shun-Guang Wei, UNIVERSITY OF IOWA, Iowa City, IA; Jennifer S Pollock, UNIVERSITY OF ALABAMA AT BIRMINGHAM, Birmingham, AL; David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL; Alan K Johnson, UNIVERSITY IOWA, Iowa City, IA
- P173 **The Impact Of Cigarette Smoking-oral Contraceptive Combination On Cardiac Remodeling In Premenopausal Female Mice**
Emna Abidi, AMERICAN UNIVERSITY OF BEIRUT, Beirut, Lebanon; ABDULLAH KAPLAN, Istanbul, Turkey; Rana Ghali, American Univ of Beirut, Beirut; George W Boozy, UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, MS; Abdo Jurjus, American Univ of Beirut, Beirut; Ahmad

Husari, AUBMC, Beirut, Lebanon; Fouad Zouein, American Univ of Beirut Medical Ctr, Beirut, Lebanon

- P174 **Sex Differences In The Pro-hypertensive Effect Of Carnitine, The Precursor Of Gut-derived Metabolite TMAO**
Justine M Abais-Battad, John Henry Dasinger, David L Mattson, Medical Coll of Georgia at Augusta Univ, Augusta, GA

Genetics, Epigenetics and Epidemiology

- P175 **Discovery And Validation Of Unique Associations Of DNA Methylation Regions With 24-hour Blood Pressure Phenotypes In African Americans**
Michelle L. Roberts, Theodore A Kotchen II, Medical Coll of Wisconsin, Milwaukee, WI; Xiaoqing Pan, Yingchuan Li, Medical Coll of Wisconsin, Milwaukee, WI; Chun Yang, Pengyuan Liu, Tao Wang, Purushottam Laud, Thomas Chelius, Yannick Munyura, David L. Mattson, Yong Liu, Allen W Cowley Jr., Srividya Kidambi, Mingyu Liang, Medical Coll of Wisconsin, Milwaukee, WI
- P176 **Genes That Increase Human Lifespan By Protecting Against Risk Of Death From Cardiometabolic Diseases**
Brian J Morris, UNIVERSITY SYDNEY, Sydney, Australia
- P177 **Sex- And Strain- Specific Metabolic Effects Of Postnatal Bp Exposure In Heterogeneous Stock Rat Founding Inbred Strains**
Valerie A Wagner, Karen C Clark, Katie L Holl, John J Reho, Justin L Grobe, Anne E Kwitek, Medical Coll of Wisconsin, Milwaukee, WI
- P178 **Social Determinants Of Health And Preventable Hospitalization For Hypertension**
Priyadarshini Pattath, Virginia Tech, Henrico, VA; Rexford Anson-Dwamena, Virginia department of health, Richmond, VA
- P179 **Explaining The Increase Of Hypertension Prevalence In Bangladesh From 2011 To 2018: Evidence From National Surveys**
Jewel RANA, South Asian Inst for Social Transformation (SAIST), Dhaka, Bangladesh; Rakibul Islam, Monash Univ, Melbourne, Australia
- P180 **Proximity To Telomeres Or A+t Content Suffices To Project Monogenic Hypertension At An 80 % Matching Rate**
Ian McKnight, Regan Raines, Hunter White, **Joon W Shim**, Marshall Univ, Huntington, WV
- P181 **Genetic And Epigenetic Effects On Saline Preference < And > Blood Pressure Variability**
John S. Lee, Mary S. Lee, Jong Y Lee, U of MN SCH OF M, Minneapolis, MN; Silvia H. Azar, Renal Med, Minneapolis, MN; Franz Halberg, U of MN SCH OF M, Minneapolis, MN
- P182 **Microangiopathic Complications In Malignant Hypertension: An Under-appreciated Form Of Target Organ Damage**
Akhil Jain, Mercy Catholic Medical Ctr, Darby, PA; Bhumika Singhal, FMHS, SGT Medical Coll, Haryana, India; Rishabh Jindal, Rml hospital, New delhi, India; Chinmay Jani, Mount Auburn Hosp , Harvard Med, Somerville, MA; Puneet K Gupta, Northeast Ohio Medical Univ, Canton, OH

Hypertension and Aging

- P183 **Effects Of L-arginine Supplementation On Cognitive Impairment In Hypertensive Frail Elderly Adults**
Pasquale Mone, Univ of Campania Luigi Vanvitelli, Avellino, Italy; Jessica Gambardella, Univ of Naples Federico II, Naples, Italy; Antonella Pansini, Asl Avellino, Avellino, Italy; Mario Rizzo, Univ of Campania Luigi Vanvitelli, Naples, Italy; Salvatore Frullone, ASL, Avellino, Italy; Gaetano Santulli, ASL, Avellino, Italy, New York, NY

- P184 **Aging Male Offspring Of Polycystic Ovary Syndrome Rat Model Have Normal Blood Pressure And Exaggerated Pressor Response To Angiotensin II**
Noha M Shawky, Univ of Mississippi Medical Ctr, Jackson, MS; Jane F Reckelhoff, UNIVERSITY MISSISSIPPI MED CTR, Jackson, MS
- P185 **Racial Disparities In The Influence Of Endocrine-Disrupting Chemicals On Hypertension-Related Mortality In The US Adult Population**
Srikanta Banerjee, John Huth, Walden Univ, Leola, PA
- P186 **Chemical And Mechanical Activation Of The Mechanosensor Piezo1 Alters Adipogenesis In Pvat Preadipocytes**
Cristian Javier Rendon Mora, Emma Darios Flood, Miguel Leonardo Chirivi Gonzales, Janice Thompson, Michigan State Univ, East Lansing, MI; Stephanie W Watts, MICHIGAN STATE UNIVERSITY, East Lansing, MI; Genaro Andres Contreras, Michigan State Univ, East Lansing, MI
- P187 **Incident And Risk Factors For Hypertension Among Urban Japanese: The Suita Study**
Haytham A. Sheerah, Natl Cerebral and Cardiovascular Ctr, Suita Shi, Japan; Ahmed Arafa, Natl Cerebral and Cardiovascular Ctr, Suita shi, Japan; Masayuki Teramoto, NCVC, Japan, Osaka, Japan; Emi Watanabe, Jiaqi Li, Yukie Sakai, Kyoko Honda-Kohmo, Rena Kashima, Yoko Nakao, Makoto Watanabe, Masatoshi Koga, Tomoharu Dohi, Natl Cerebral and Cardiovascular Ctr, Suita Shi, Japan; Yoshihiro Kokubo, NATL CEREBRAL AND CARDIOVASC CTR, Suita Osaka, Japan
- P188 **Blood Pressure Control And Glaucoma Risk In Older Women**
Bernhard Haring, Univ Heart Ctr Graz, Graz, Austria; Kathleen Hovey, Michael La Monte, Chris Andrews, Univ at Buffalo – SUNY, Buffalo, NY; Nazmus Saquib, Sulaiman AlRajhi Univ, Al Bukayriyah, Saudi Arabia; Joann Manson, HARVARD MEDICAL SCHOOL, Boston, MA; Daichi Shimbo, Columbia Univ, New York City, NY; Robert Ritch, New York Eye and Ear Infirmary New York, New York City, NY; C. Gustavo De Moraes, Columbia Univ, New York City, NY; Sylvia Wassertheil-Smoller, Albert Einstein Coll of Med, New York City, NY
- P189 **AT₁R-Dependent Blood-Brain Barrier Disruption Precedes Neuroinflammation In Age-Dependent Hypertension**
Kayla M. Nist, Boston University Sch of Med, Boston, MA; Jesse Moreira, Boston Univ Sch of Med, Boston, MA; Richard D Wainford, BOSTON UNIV SCHOOL MEDICINE, Boston, MA
- P190 **Antihypertensive Treatment Improves Left Ventricular Geometry After 10 Years Even In Elderly Hypertensive Patients**
Ayumi Toba, Joji Ishikawa, Kazumasa Harada, Tokyo Metropolitan Geriatric Hosp and Inst of Gerontology, Tokyo, Japan
- P191 **Association Between Blood Pressure And Brain Volumes Vary By Sex And Age.**
Khawlah Alateeq, Erin Walsh, Ctr for Res on Ageing, Australian Natl Univ, Canberra, Australia; Walter Abhayaratna, Coll of Health and Med, Australian Natl Univ, Canberra, Australia; Nicolas Cherbuin, Ctr for Res on Ageing, Australian Natl Univ, Canberra, Australia
- P192 **Orthostatic Tolerance Before And After 60 Days Of Strict Head Down Tilt Bedrest With And Without Daily Artificial Gravity Training**
Jan Hoenemann, Univ of Cologne and German Aerospace Ctr, Inst of Aerospace Med, Cologne, Germany; Fabian Hoffmann, Univ of Cologne, Cologne, Germany; Stefan Moestl, Karten Heusser, German Aerospace Ctr (DLR), Inst of Aerospace Med, Cologne, Germany; Edwin Mulder, German Aerospace Ctr (DLR) Inst of Aerospace Med, Cologne, Germany; Teun van Herwaarden, Radboud Univir Medisch Centrum, Nijmegen, Netherlands; Stuart Lee, KBR, Inc., Cardiovascular and Vision Lab, NASA Human Health and Performance Directorate, Houston, TX; Jens Jordan, German Aerospace Ctr (DLR), Inst of Aerospace Med, Cologne, Germany; Jens Tank, Inst of Aerospace Med, Cologne, Germany

Neurogenic Mechanisms

- P193 **Effect Of Nitroglycerin And Sympathetic Withdrawal On Splanchnic Capacitance And Cardiac Blood Volumes**
Luis E Okamoto, William D Dupont, Vanderbilt Univ Medical Ctr, Nashville, TN; Sachin Y Paranjape, Vanderbilt Univ Medical Cente, Nashville, TN; Jorge E Celedonio, VANDERBILT UNIVERSITY MEDICALCENTER, Nashville, TN; Emily C Smith, Vanderbilt Univ Medical Ctr, Nashville, TN; Marvin W Kronenberg, VANDERBILT HEART INSTITUTE, Nashville, TN; Italo Biaggioni, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN
- P194 **Voluntary Exercise Eliminates Maternal Gestational Hypertension-induced Hypertensive Response Sensitization (htrs) In Post-weaning High Fat Diet Fed Male Adult Offspring**
Baojian Xue, UNIVERSITY OF IOWA, Iowa City, IA; Yang Yu, terry beltz, Univ of Iowa, Iowa City, IA; Fang Guo, University of Iowa, Iowa City, IA; Shun-Guang Wei, UNIVERSITY OF IOWA, Iowa City, IA; David M Pollock, Univ of Alabama at Birmingham, Birmingham, AL; Jennifer S Pollock, UNIVERSITY OF ALABAMA AT BIRMINGHAM, Birmingham, AL; Alan K Johnson, UNIVERSITY IOWA, Iowa City, IA
- P195 **No Functional Nerve Recovery To 6 Months Post Renal Denervation With Rf Energy In A Normotensive Pig Model**
Andrew Sharp, Univ Hosp of Wales, Cardiff, United Kingdom; Stefan Tunev, Medtronic, Santa Rosa, CA; Markus P Schlaich, UNIVERSITY OF WESTERN AUSTRALI, Mount Claremont, Australia; David P LEE, STANFORD UNIVERSITY, Stanford, CA; Alope Finn, CVPath Inst, Inc., Gaithersburg, MD; Julie TRUDEL, Medtronic, Santa Rosa, CA; David E Kandzari, PIEDMONT HEART INST, Atlanta, GA
- P196 **Exacerbation Of Postural Tachycardia Syndrome After An Oral Glucose Challenge: Role Of Incretins**
Nicholas Breier, Vanderbilt Univ Medical Ctr, Nashville, TN; Andre Diedrich, VANDERBILT MEDICAL CENTER, Nashville, TN; Luis E Okamoto, Vanderbilt Univ Medical Ctr, Nashville, TN; Shahram E Mehr, Charles R Flynn, **Cyndya A Shibao**, VANDERBILT UNIV. MEDICAL CENTER, Nashville, TN
- P197 **Increased Serotonin In Visceral Adipose Tissue May Contribute To Stimulate Sensory Neurons Mediating Obesity Hypertension In Mice Exposed To Early Life Stress**
Carolina Dalmasso, Univ of Kentucky, Lexington, KY; Jacqueline Leachman, Sundus Ghuneim, Univ of Kentucky, Lexington, KY; Nermin Ahmed, university of kentucky, lexington, KY; Jorge F Giani, CEDARS-SINAI MEDICAL CENTER, West Hollywood, CA; Lisa A Cassis, UNIVERSITY KENTUCKY, Lexington, KY; Analia S Loria, UNIVERSITY OF KENTUCKY, Lexington, KY
- P198 **Biphasic And Sex-dependent Roles Of The Prorenin Receptor In The Rostral Ventrolateral Nucleus In Mice Subjected To Deoxycorticosterone Acetate-salt Hypertension**
Pablo Nakagawa, Daniel Brozoski, Natalia M Mathieu, Ko-Ting Lu, Javier Gomez, John J Reho, Jeffrey Segar, Justin L Grobe, Curt D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI
- P199 **Circadian Contributions To Blood Pressure Variation Under Constant Conditions**
Gabrielle F. Gloston, Annie E. Ensor, Samarth Patel, Rebecca Williams, Courtney M. Peterson, Univ of Alabama at Birmingham, Birmingham, AL; Stephen J Thomas, UNIVERSITY OF ALABAMA AT BIRMINGHAM, Birmingham, AL
- P200 **Orthostatic Hypotension Is An Independent Predictor Of Delayed Rehabilitation Recovery**
Luis E Okamoto, Vanderbilt Univ Medical Ctr, Nashville, TN; Jin-Woo Park, Korea Univ Medical Ctr, Seoul, Korea, Republic of; Purnima Sharma, Vanderbilt Univ Medical Ctr, Nashville, TN; Andre Diedrich, VANDERBILT MEDICAL CENTER, Nashville, TN; Lauren Massey, Jeffery Johns, Vanderbilt Univ Medical Ctr, Nashville, TN; Italo Biaggioni, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN

- P201 **Negative Regulation Of PVN Pre-sympathetic Neuronal Activity By Resident Microglia**
Peng Shi, Yunfan Lin, Qianqian Bi, Guo Cheng, ZHEJIANG UNIVERSITY, Hangzhou, China; Xiao Shen, Zhejiang Univ, Hangzhou, China

Non-Pharmacological Therapy (Alternative Medicine; Diet; Physical Activity)

- P202 **Exercise Training Improves Cerebral Glucose Metabolism And Cognition In Obstructive Sleep Apnea: A Randomized Controlled Trial**
Linda Massako Ueno-Pardi, Insto do Coracao (InCor), Hosp das Clinicas HCFMUSP, Faculdade de Medicina, Univ de Sao Paulo and Escola de Artes Ciencias e Humanidades, Univ de Sao Paulo, Sao Paulo, SP, BR, Sao Paulo, Brazil; Fabio L. Souza-Duran, Dept of Psychiatry, Hosp das Clinicas HCFMUSP, Faculdade de Medicina, Univ de Sao Paulo, Sao Paulo, SP, BR, Sao Paulo, Brazil; Larissa Matheus, Amanda G. Rodrigues, Insto do Coracao (InCor), Hosp das Clinicas HCFMUSP, Faculdade de Medicina, Univ de Sao Paulo, Sao Paulo, SP, BR, Sao Paulo, Brazil; Camila G. Carneiro, Carla R. Ono, Carlos A. Buchpiguel, Dept of Radiology and Oncology, Hosp das Clinicas HCFMUSP, Faculdade de Medicina, Univ de Sao Paulo, Sao Paulo, SP, BR, Sao Paulo, Brazil; Carlos E. Negrão, Geraldo Lorenzi-Filho, Insto do Coracao (InCor), Hosp das Clinicas HCFMUSP, Faculdade de Medicina, Univ de Sao Paulo, Sao Paulo, SP, BR, Sao Paulo, Brazil; Geraldo Busatto-Filho, Dept of Psychiatry, Hosp das Clinicas HCFMUSP, Faculdade de Medicina, Univ de Sao Paulo, Sao Paulo, SP, BR, Sao Paulo, Brazil
- P203 **Time-restricted Feeding Attenuates Hypertension In Mice**
Bethany L. Goodlett, Braden M. Sims, Texas A&M Univ Coll of Med, College Station, TX; Shobana Navaneethabalakrishnan, Texas A and M Univ, Bryan, TX; Brooke K. Wilcox, Emma J. Pickup, Marissa R. Henley, Miranda L. Albee, Texas A&M Univ Coll of Med, College Station, TX; Cristina M. Arenaz, Texas A&M Univ Coll of Med, Bryan, TX; Brett M Mitchell, TEXAS A M HEALTH SCIENCE CENTER, Bryan, TX
- P204 **Sinusoidal Galvanic Stimulation Improves Orthostatic Symptoms In Patients With Postural Tachycardia.**
Vasile Urechie, Vanderbilt Univ Medical Centr, Nashville, TN; Emily Smith, Vanderbilt Univ Medical Ctr, Nashville, TN; Dmitri Ogorodnikov, Fine Network of Nontrivial Design, New York city, NY; Italo Biaggioni, Andre Diedrich, VANDERBILT UNIVERSITY MEDICAL CENTER, Nashville, TN
- P205 **Use Of A Noninvasive, Closed-loop, Allostatic, Neurotechnology Reduced Blood Pressure And Improved Sleep In Heterogeneous Cohort**
Hossam A Shaltout, Catherine Tegeler, Lindsay Howard, Kenzie Brown, Faiza Asif-Fraz, Dawn Kellar, Charles H Tegeler IV, Wake Forest Sch of Med, Winston Salem, NC
- P206 **Improvement Of Autonomic Function, Sleep, Depression, Anxiety, And Stress In Military Personnel With Traumatic Stress After Use Of A Closed Loop Neurotechnology**
Catherine Tegeler, Wake Forest Sch of Med, Winston-Salem, NC; Lindsay Howard, Kenzie L Brown, Faiza Asif-Fraz, Dawn C Kellar, Hossam A Shaltout, Charles H Tegeler IV, Wake Forest Sch of Med, Winston Salem, NC
- P207 **Sleep Hygiene As An Intervention To Improve Autonomic Function**
Michael Vazquez, BIDMC and HMS, Boston, MA; Huan Yang, Beth Israel Deaconess Medical Ctr., Wilmington, MA; Rammy Dang, BIDMC and HMS, Boston, MA; Monika Haack, Beth Israel Deaconess Medical Cente, Boston, MA; Janet Mullington, BIDMC and HMS, Boston, MA
- P208 **Raas And Markers Of Renal Function In Response To Sleep Hygiene Interventions**
Huan Yang, Michael Vazquez, Annika Eske, Emily Peachthong, Janet Mullington, BIDMC and HMS, Boston, MA

Oxidative Stress, Inflammation, Immunity and Cytokines

- P209 **Loss Of Rgs2 Specifically In CD4+ T Cells Decreases The Hypertensive Response To Vasopressin**
Sabrina M Scroggins, UNIVERSITY OF IOWA, Iowa City, IA; Gabrielle Gray, Univ of Iowa, Iowa City, IA; Douglas G. Scroggins, Kamara S. Shaw, Donna A Santillan, UNIVERSITY OF IOWA, Iowa City, IA; Justin L Grobe, Medical Coll of Wisconsin, Milwaukee, WI; Mark K Santillan, UNIVERSITY IOWA CARVER COLL MED, Iowa City, IA
- P210 **Central Blockade Of Tumor Necrosis Factor- α -Converting Enzyme (tace) Ameliorates Neuroinflammation, Sympathetic Excitation And Cardiac Dysfunction In Heart Failure Rat**
Yang Yu, Univ of Iowa, Iowa City, IA; Baojian Xue, UNIVERSITY OF IOWA, Iowa City, IA; Hanzeng Li, Qing Chen, Mingxuan Li, terry beltz, Univ of Iowa, Iowa City, IA; Robert M Weiss, Alan K Johnson, UNIVERSITY IOWA, Iowa City, IA; Shunguang Wei, UNIVERSITY OF IOWA COLL OF MED, Iowa City, IA
- P211 **Single High Na⁺ Ingestion Leads To An Increase In Oxidative Stress And Triggers Inflammation.**
Ginette Bordcoch, Fundacion J. Robert Cade, Cordoba, Argentina; Ivan Tavera Busso, Insto Multidisciplinario de Biologia Vegetal, Consejo Nacional de Investigaciones Cientificas y Tecnicas y Facultad de Ciencias Exactas, Fisicas y Naturales, Univ Nacional de Cordoba, Cordoba, Argentina; Juan Masjoan Juncos, Univ of Alabama At Birmingham, Hoover, AL; Luis I Juncos, FUNDACION J ROBERT CADE, Cordoba 5003Ddz, Argentina
- P212 **Peroxioredoxin-4 And Dopamine D5 Receptor Interact To Reduce Oxidative Stress And Inflammation In The Kidney**
Hewang Lee, George Washington Univ, Washington, DC; Sufei Yang, The Third Military Medical Univ, Chongqing, China; Peiyong Yu, Univ of Maryland Sch of Med, Baltimore, MD; Ines Armando, GEORGE WASHINGTON UNIVERISITY, Washington, DC; Chunyu Zeng, The Third Military Medical Univ, Chongqing; Robin A Felder IV, The Univ of Virginia, Charlottesville, VA; Laureano D Asico, GEORGE WASHINGTON UNIVERSITY, Washington, DC; Pedro A Jose, GEORGE WA UNIV SCH MED HEALTH SCI, Washington, DC
- P213 **Furosemide-mediated Suppression Of p38 MAPK Signaling Abrogates Cholinergic-mediated Salt Sensitive Hypertension In Young Spontaneously Hypertensive Rats**
Nandita Raikwar, Trever Maiers, Holly Hohmann, Alan Ryan, Peter Snyder, Sailesh Harwani, Univ of Iowa, Internal Med, Iowa City, IA
- P214 **Isolevuglandins Mediate Inflammatory Gene Expression And Immune Activation In Hypertension And Systemic Lupus Erythematosus**
Nestor de la Visitacion, Charles D Smart, Jaya Krishnan, David G Harrison, David M Patrick, Vanderbilt Univ Medical Ctr, Nashville, TN
- P215 **Treatment With Il-17 Inhibitors Is Not Associated With A Change In Blood Pressure In Human Subjects: A Retrospective Cohort Study**
Peihuan Tsai, Univ of Rochester, Rochester, NY; Daniel Gilroy, Rochester Inst of Technology, Rochester, NY; Thu H Le, Erika R Drury, Univ of Rochester, Rochester, NY
- P216 **Cholinergic-mediated Salt-Sensitive Hypertension In A Genetic Model Of Essential Hypertension**
Nandita Raikwar, Holly Hohmann, Trever Maiers, Alan Ryan, Peter Snyder, Sailesh Harwani, Univ of Iowa, Internal Med, Iowa City, IA
- P217 **Imbalance Of M1/M2 Macrophages In Ovaries Of Hypertensive Mice Is Associated With Reproductive Dysfunction And Lymphangiogenesis**
Shobana Navaneethalakrishnan, Brooke K Wilcox, Bethany L Goodlett, Brett M Mitchell, Texas A and M Univ, Coll of Med, Bryan, TX

- P218 **Ume (*Prunus Mume*) Attenuates Er Stress And Inflammation In Rat Vascular Smooth Muscle Cells**
Ryohei Kuroda, Keisuke Okuno, Stephanie M Cicalese, Temple Univ, Philadelphia, PA; Yuriko Ueda, Yoshiharu Okuno, Natl Inst of Technology, Wakayama Coll, Gobo, Japan; Ryohei Kono, Hirotohi Utsunomiya, Wakayama Medical Univ, Wakayama, Japan; Shinsuke Marumoto, Kindai Univ, Osaka, Japan; Satoru Eguchi, Temple Univ, Philadelphia, PA
- P219 **Losartan Prevents The Recruitment Of Renal M1-like Macrophages And Dendritic Cells In Medulla Of Angiotensin Ii Hypertensive Mice**
Patricio A Araos, Andrés Guzmán, Stefanny M Figueroa, Javier Reyes, Cristián A Amador, Automomous Univ of Chile, Santiago, Chile

Patient-Provider-Healthcare System Issues

- P220 **Disparity In Hospital Admissions And Length Of Stay Based On Income Status For Emergency Department Hypertensive Crisis Visits: A Cross-sectional Study Using The Nationwide Emergency Department Sample**
Shreya Srivastava, Bhargav Vemulapalli, Rutgers Robert Wood Johnson Medical Sch, New Brunswick, NJ; Alexis K Okoh, RWJ Barnabas Health NBIMC, Newark, NJ; John Kassotis, Rutgers Robert Wood Johnson Medical Sch, New Brunswick, NJ
- P221 **Effect Of Instructional Videos To Enhance Healthcare Provider Knowledge For Hypertension (htn) Management In Tanzania**
Anbrasi Edward, Johns Hopkins Univ, Baltimore, MD; Gibson Kagaruki, NIMRI, Dar es Salaam, Tanzania, United Republic of; Frank Manase, CCP Med, Dar es Salaam, Tanzania, United Republic of; Kuni Matsushita, JOHNS HOPKINS UNIVERSITY, Baltimore, MD; Lawrence J Appel, JOHNS HOPKINS MEDICAL INSTITUTIONS, Baltimore, MD

Pediatric and Adolescent Hypertension

- P222 **Impact Of Adverse Childhood Experiences On Ambulatory Blood Pressure Profiles In Adolescence**
Cailin E Kellum, Univ of Alabama at Birmingham, Birmingham, AL; Paige Perry, Univ of Alabama at Birmingham, Birmingham, AL; Keri Kemp, Univ of Alabama at Birmingham, Birmingham, AL; Alan K Johnson, The Univ of Iowa, Iowa City, IA; David M Pollock, Sylvie Mrug, Jennifer Pollock, Michael Seifert, Daniel Feig, Univ of Alabama at Birmingham, Birmingham, AL
- P223 **Vitamin D Supplementation Improves Measures Of Arterial Stiffness And Vascular Function In Adolescents Suffering From Orthostatic Intolerance**
Hossam A Shaltout, Wake Forest Sch of Med, Winston Salem, NC

Pregnancy, Preeclampsia and Developmental Programming

- P224 **Obesity Is Associated With Hypoxia At The Maternal-fetal Interface In A Mouse Model Of Superimposed Preeclampsia, BPH/5**
Daniella Adams, Kalie Beckers, Louisiana State Univ, Sch of Veterinary Med, Baton Rouge, LA; Viviane Gomes, Louisiana State Univ SVM, Baton Rouge, LA; Jennifer L Sones, Louisiana State Univ, Baton Rouge, LA
- P225 **Inhibiting B Cell Activating Factor Normalizes The Hypertension And Cytolytic Natural Killer Cells Associated With Placental Ischemia**
Owen T Herroock, Darby Whitney, Univ of Mississippi Medical C, Jackson, MS; Lorena M Amaral, MEDICAL CENTER- UMMC, Jackson, MS; Nathan Campbell, Univ of Mississippi Medical C, Jackson, MS; Nicole Ingram, Ty Turner, Univ of Mississippi Medical C, Jackson, MS, Clinton, MS; Evangeline Deer, Univ of MS Medical Ctr, Brandon, MS; Kathy Cockrell, Univ of MS Medical Ctr, Brandon, MS,

Jackson, MS; Sarah Fitzgerald, Univ of Mississippi Medical C, Jackson, MS; Babbette Aha Lamarca, UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, MS

- P226 **Transcriptome Signature Of Placentas From Diabetic Pregnancies Is Confounded By Fetal Sex.**
Sarah M. Kedziora, MDC Berlin, Berlin, Germany; Benedikt Obermayer, BIH Charité, Berlin, Germany; Meryam Sugulle, Faculty of Med, Div of Obstetrics and Gynaecology, Univ of Oslo, Oslo, Norway; Florian Herse, CHARITE, Berlin; Kristin Kräker, CHARITE, Berlin, Berlin, Germany; Nadine Haase, EXPERIMENTAL AND CLINICAL RES CTR, Berlin; Immaculate Langmia, Dominik N. Müller, MDC Berlin, Berlin, Germany; Anne Staff, Univ of Oslo, Oslo, Norway; Dieter Beule, BIH Charité, Berlin, Germany; Ralf Dechend, Charite and Helios Clinic Berlin, Berlin
- P227 **Gq Signaling In The Placental Syncytiotrophoblast Layer During Preeclampsia**
Megan Opichka, Medical Coll of Wisconsin, Wauwatosa, WI; Mary Christine Livergood, Medical Coll of Wisconsin, Brookfield, WI; Curt D Sigmund, Jennifer McIntosh, Justin L Grobe, Medical Coll of Wisconsin, Milwaukee, WI
- P228 **RhoBTB1 Is Expressed In Placental Syncytiotrophoblast Cells**
M. Christine Livergood, Megan Opichka, Javier Gomez, Justin L Grobe, Jennifer McIntosh, Curt D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI
- P230 **Prevention Of Maternal Obesity Attenuates Adverse Offspring Cardiometabolic Outcomes In Preeclamptic-like Mouse Model**
Kalie Beckers, Juliet Flanagan, Louisiana State Univ, Baton Rouge, LA; Viviane Gomes, Louisiana State Univ SVM, Baton Rouge, LA; ChinCHI Liu, Andrea Johnston, Louisiana State Univ SVM, Baton Rouge, LA, Baton Rouge, LA; Jennifer L Sones, Louisiana State Univ, Baton Rouge, LA
- P231 **Aspirin Reverses Placental Gene Expression Changes Associated With Preeclampsia**
Donna A Santillan, Eric J Devor, Brandon J Cooley, Sydney H Pearl, Mark K Santillan, UNIVERSITY OF IOWA, Iowa City, IA
- P232 **Pregnancy Induced Changes In Urinary Uromodulin Excretion In Normotensive And Chronic Hypertensive Rodent Models**
Sheon Mary, Philipp Boder, Delyth Graham, Christian Delles, Univ of Glasgow, Glasgow, United Kingdom
- P233 **Microvascular Fingerprint Of Multi-Organ Imaging - New Insights In Preeclampsia Research**
Kristin Kraeker, Experimental and Clinical Res Ctr – a joint cooperation between the Max-Delbrück-Ctr for Molecular Med and the Charite – Univsmedizin Berlin, Berlin, Germany; Hanna Napieczynska, Max-Delbrück-Ctr for Molecular Med, Berlin, Germany; Sarah Kedziora, Nadine Haase, Dominik N. Müller, Experimental and Clinical Res Ctr – a joint cooperation between the Max-Delbrück-Ctr for Molecular Med and the Charite – Univsmedizin Berlin, Berlin, Germany; Arnd Heuser, Max-Delbrück-Ctr for Molecular Med, Berlin, Germany; Ralf Dechend, Experimental and Clinical Res Ctr – a joint cooperation between the Max-Delbrück-Ctr for Molecular Med and the Charite – Univsmedizin Berlin and Helios Clinic, Berlin, Germany
- P234 **Hypertensive Disorders Of Pregnancy And Increased Levels Of Cardiac Troponin I After Delivery**
Takao Kato, KYOTO UNIVERSITY, Kyoto, Japan; Eri Muta, Kyoto, Japan; Moriaki Inoko, Kitano Hosp, Osaka, Japan
- P235 **Reduced Uterine Perfusion Pressure Impairs Seizure-induced Downregulation Of Neurotransmitter Transporters In Mice**
Maria Jones- Muhammad, Univ of Mississippi Medical C, Jackson, MS; Kennedi Stancil, BASE-Pair Program, Jackson, MS; Qingmei Shao, Univ of Mississippi Medical C, Jackson, MS; Junie P Warrington, UNIV MISSISSIPPI MEDICAL CENTER, Jackson, MS

- P236 **Organofluorine Hydrazones Preventing Oxidant Stress In An *In Vitro* Model Of Preeclampsia**
Zsuzsanna K Zsengeller, BIDMC - Harvard Medical Sch, Boston, MA; Maxim Mastuygin, UMass, Boston, MA; Agnes Lo, Saira Salahuddin, BIDMC - Harvard Medical Sch, Boston, MA; Ananth Karumanchi, Cedars-Sinai Medical Ctr, W Hollywood, CA; Marianna Torok, Univ of Massachusetts Boston, Boston, MA; Bela Torok, UMass Boston, Boston, MA

Proteomics and Metabolomics

- P237 **Alterations In Renal Sodium Handling Proteins Determined By Urinary Extracellular Vesicle Analysis During Dietary Sodium Modulation And In Primary Aldosteronism**
James M Luther, VANDERBILT UNIV MED CTR, Nashville, TN; Dungeng Peng, Vanderbilt Univ Medical Ctr, Nashville, TN; Anand Vaidya, Brigham and Women's Hosp, Harva, Boston, MA; Hayes McDonald, VANDERBILT, Nashville, TN; Kevin Schey, Vanderbilt Univ, Nashville, TN; Gail K Adler, BRIGHAM WOMENS HOSPITAL, Boston, MA
- P238 **Regulation Of G Protein-coupled Receptor Kinase 4 Expression By Serum In Breast Cancer And Renal Proximal Tubule Cells**
Wei Yue, Univ of Virginia, Charlottesville, VA; Peng Xu, UNIVERSITY OF VIRGINIA, Charlottesville, VA; John J Gildea, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Robin A Felder IV, The Univ of Virginia, Charlottesville, VA
- P239 **Identification Of Binding Sites For Phosphodiesterase 5 (PDE5) On Rho-related BTB Domain Containing 1 (RhoBTB1) As A Guide To Identifying Novel RhoBTB1-Binding Partners**
Gaurav Kumar, Ko-Ting Lu, Wu Jing, Medical Coll of Wisconsin, Milwaukee, WI; Shi Fang, Medical Coll of Wisconsin, Wauwatosa, WI; Curt D Sigmund, Medical Coll of Wisconsin, Milwaukee, WI

Renal Hemodynamics, Tubular Transport, Salt, Renovascular Hypertension

- P240 **Role Of Acetic Acid Produced By Gut Microbiota In The Mechanism Of Reducing Blood Pressure By *Saccharina Japonica* In Renovascular Hypertensive Rats**
Ayaka Harui, Saki Maruyama, Kobe Women's Univ, Kobe, Japan; Yukiko Segawa, Osaka Seikei Coll, Osaka, Japan; Hiroko Hashimoto, Osaka Seikei Coll, Osaka, Japan; Tomoko Osera, Toyo Univ, Ora, Gumma, Japan; Nobutaka Kurihara, Kobe Women's Univ, Kobe, Japan
- P241 **Salt Directly Alters Molecular Trafficking Of Uromodulin In Renal Thick Ascending Limb Cells**
Philipp Boder, Sheon Mary, William Mullen, Delyth Graham, Patrick B Mark, James Leiper, Christian Delles, Univ of Glasgow, Glasgow, United Kingdom
- P242 **The Role Of Kappa Opioid Receptors In The Development Of Hypertension And Kidney Injury In Sprague-Dawley Rats**
Daria Golosova, Adrian Zietara, Ruslan Bohovyk, Vladislav Levchenko, Alexander Staruschenko, Medical Coll of Wisconsin, Milwaukee, WI
- P243 **Inverse Salt Sensitivity In Normotensive Adults: Role Of Demographic Factors**
Nathan T Romberger, Joseph Stock, Jordan Patik, Ron McMillan, Shannon Lennon, David G Edwards, William B Farquhar, Univ of Delaware, Newark, DE
- P244 **Scleroderma Renal Crisis Among Systemic Sclerosis Patients; A Large Cohort Study From The United States National Emergency Department Database.**

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- P245 **Activation Of Protease-activated Receptors 1 Leads To Structural Changes In Immortalized Cultured Human Podocytes.**
Ruslan Bohovyk, Sherif Khedr, Christine A Klemens, Vladislav Levchenko, Olena Isaeva, Oleg Palygin, Alexander Staruschenko, Medical Coll of Wisconsin, Milwaukee, WI
- P246 **Relationship Between Urinary Sodium/potassium Ratio And Systolic Blood Pressure In Salt Sensitive Subjects In The Dash-sodium Trial**
Rozalia Abramov, Elizabeth D Drugge, Khalid A Farhan, Nicholas R Ferreri, New York Medical Coll, Valhalla, NY
- P247 **Elastin Insufficiency Impairs Renal Hemodynamics And Accelerates Aging-associated Structural And Functional Remodeling Of Preglomerular Arterioles**
Alethia Dixon, Patrick Osei-Owusu, Case Western Reserve Univ, Cleveland, OH

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- P248 **A Significant Anemic Phenotype In *Ren1c*^{-/-} Mice Due To Impaired Erythropoiesis And Epo Production**
Chih-hong Wang, Jia L. Zhuo, Xiao Li, Tulane Univ, New Orleans, LA
- P249 **Angiotensin At1a Receptor Signaling In Agrp Neurons In Metabolism Control**
Kirthikaa Balapattabi, Medical Coll of Wisconsin, Wauwatosa, WI; Gary Mouradian Jr., Medical Coll of Wisconsin, Milwaukee, WI; Matthew Hodges, Medical Coll of Wisconsin, Wauwatosa, WI; Curt D Sigmund, Justin L Grobe, Medical Coll of Wisconsin, Milwaukee, WI
- P250 **A High-throughput Nitric Oxide Measurement Assay Reveals That Angiotensin-(1-5) Is An AT₂ Receptor Agonist**
Igor M Souza Silva, Kenneth Kjærgaard, Christina Mortensen, UNIVERSITY OF SOUTHERN DENMARK, Odense C, Denmark; Robson A Santos, UFMG, Belo Horizonte, Brazil; Thiago Verano-Braga, Univ of Minas Gerais, Belo Horizonte, Brazil; Tore B Stage, Ulrike M Steckelings, UNIVERSITY OF SOUTHERN DENMARK, Odense C, Denmark
- P251 **Out-of-clinic Cortisol Secretion Is Increased In Masked Uncontrolled Hypertension**
Mohammed Siddiqui, Univ of Alabama at Birmingham, Birmingham, AL; Robert M Carey, UNIV OF VIRGINIA HEALTH SYSTEM, Charlottesville, VA; David A Calhoun, UNIV ALABAMA AT BIRMINGHAM, Birmingham, AL; Suzanne Oparil, UNIVERSITY OF ALABAMA AT BIRMINGHAM, Birmingham, AL
- P252 **Smooth Muscle At1a Receptor Mediates Perivascular Fibrosis In Angiotensin Ii-infused Mice**
Keisuke Okuno, Temple Univ, Philadelphia, PA; Satoru Eguchi, TEMPLE UNIVERSITY SCHOOL OF MEDICIN, Philadelphia, PA; Matthew A Sparks, DUKE UNIVERSITY MEDICAL CTR, Durham, NC
- P253 **Relationship Between Aldosterone And Parathyroid Hormone In Patients With Primary Hyperparathyroidism**
Branka Stanic, Georgetown Univ, Bethesda, MD; Branislava Ilincic, Radmila Zeravica, Medical Faculty Novi Sad, Novi Sad, Serbia; Dragana Milicic-Ivanovski, Ctr for Pathophysiology of Breathing and Respiratory Sleep Disorders, The Inst for Pulmonary Diseases of Vojvodina, Sremska Kamenica, Serbia; Velibor Cabarkapa, Romana Mijovic, Medical Faculty Novi Sad, Serbia, Serbia

- P254 **Sex Differences In Angiotensin Ii-induced Hypertension In Mice With Proximal Tubule-specific Deletion Of Mitochondrial Protein Sirtuin 3 In The Kidney**
Ana Paula O. Leite, Tulane Univ, New Orleans, LA; Xiao C Li, Tulane Univ Sch of Medicin, New Orleans, LA; Rumana Hassan, Tulane Univ, New Orleans, LA; Jian-xiong X Chen, UNIVERSITY MISSISSIPPI MEDICAL CTR, Jackson, MS; Akemi Sato, Courtney M. Dugas, Tulane Univ, New Orleans, LA; Ryosuke Sato, TULANE UNIVERSITY, New Orleans, LA; Jia L Zhuo, Tulane Univ Sch of Medicin, New Orleans, LA

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- P255 **Resistance Hypertension And Achievement Of Target Blood Pressure Level By Continuous Positive Airway Pressure Long Therapy In Patients With Obstructive Sleep Apnea**
Oksana Rekovets, Inst of cardiology, Kyiv, Ukraine; Yuriy Sirenko, M.D.Strazhesko Inst. Cardiology, Kiev, Ukraine; Nina Krushynska, Olena Torbas, Svitlana Kushnir, Oleksandr Sirenko, Galina Primak, Inst of cardiology, Kyiv, Ukraine
- P256 **Genetic Determinants Of Blood Pressure Associate With Apparent Treatment Resistant Hypertension**
Joseph H Breeyear, Megan M Shuey, Vanderbilt Univ, Nashville, TN; Todd L Edwards, Jacklyn Hellwege, Vanderbilt Univ Medical Ctr, Nashville, TN
- P257 **Refractory Hypertension Partially Improved With Anxiolytics**
Bara Al-Qudah, **Ashraf E Ahmed**, HMC, Doha, Qatar; Mohammed Alamin, Cheikh Aboolmaaly, Mohamed Shariff, HMC, Doha, Qatar

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- P258 **The Use Of Ace Inhibitors And Angiotensin Receptor Blockers Is Associated With Decreased Mortality And Increased Hospitalization Rate In Covid-19 Patients**
Aaron Douen, Jeremy Oh, Wesley Romney, Coney Island Hosp, Brooklyn, NY; Ryan Panetti, St.George's Univ, Sch of Med, True Blue, Grenada; Prakash Ramdass, St.George's Univ, Sch of Med, True blue, Grenada; Aleksandre Toreli, George Juang, Coney Island Hosp, Brooklyn, NY
- P259 **Cardiovascular Pharmacotherapy And Covid-19**
Stefanie Lip, Univ of Glasgow, Glasgow, United Kingdom; Lindsay McCallum, Univ of Glasgow, Glasgow; Clea du Toit, Univ of Glasgow, Glasgow, United Kingdom; Jason Kilmartin, Queen Elizabeth Univ Hosp, Glasgow, United Kingdom; Eleanor Murray, Salil Reetoo, Laura Knox, Univ of Glasgow, Glasgow, United Kingdom; Maggie Rostron, Queen Elizabeth Univ Hosp, Glasgow, United Kingdom; Tomasz J Guzik, Christian Delles, UNIVERSITY OF GLASGOW, Glasgow; Anna F Dominiczak, UNIVERSITY GLASGOW, Glasgow; Rhian M Touyz, UNIVERSITY OF GLASGOW, Glasgow; Sandosh Padmanabhan, GLASGOW UNIVERSITY, Glasgow
- P260 **SARS-Cov-2 Spike Protein S1-Mediated Endothelial Injury And Pro-Inflammatory State Is Amplified By Dihydrotestosterone And Prevented By Mineralocorticoid Antagonism**
Nitin Kumar, Kristina Hunker, Univ of Michigan, Ann Arbor, MI; Yogendra Kanthi, NHLBI,Natl Insts of Health, Bethesda, MD; Andrea T Obi, UNIVERSITY OF MICHIGAN, Ann Arbor, MI; Santhi Ganesh, UNIVERSITY OF MICHIGAN, Ann Arbor, MI, Ann Arbor, MI
- P261 **Is Hypertension A Clinically Important Independent Risk Factor For Critical Illness In Covid-19?**
Anthi Katsouli, Loyola Univ Medical Ctr, Maywood, IL; Sadia Gazi, Paula Marfia, Helen Lee, Sameer Qazi, Monica Komorowski, Loyola Univ Medical Ctr, Maywood, IL; Ann-Marie Bertino, Neeraj Joshi
- P262 **Spike Protein 1 Of Sars-cov-2 Increases Interferon Stimulated Genes And Induces An Immune/inflammatory Responses In Human Endothelial Cells.**

Francisco J Rios, UNIVERSITY OF GLASGOW, Glasgow, United Kingdom; Augusto C Montezano, ICAMS - UNIV OF GLASGOW, Glasgow; Livia L Camargo, Rheure A Lopes, Eihu Aranday-Cortes, John McLaughlan, UNIVERSITY OF GLASGOW, Glasgow, United Kingdom; Rhian M Touyz, UNIVERSITY OF GLASGOW, Glasgow

- P263 **Symptomatic Post-Acute SARS-CoV-2-Infection Hypertension Syndrome**
Lauren East, Dept of Med, Washington Univ Sch of Med, St. Louis, MO; Zainab Mahmoud, Cardiovascular Div, Dept of Med, Washington Univ in St. Louis, St Louis, MO; Amanda Verma, Cardiovascular Div, Dept of Med, Washington Univ Sch of Med, St. Louis, MO
- P264 **Protective Effects Of Angiotensin II Inhibitors In Lebanese SARS-COV2 Hospitalized Patients**
Farah Abdulhai, Cleveland Clinic, Cleveland, OH; Souha Fares, American Univ of Beirut Medical Ctr, beirut, Lebanon; Wissam Mekary, Nada J. Habeichi, Gaelle P. Massoud, American Univ of Beirut Medical Ctr, Beirut, Lebanon; Marwan M Refaat, AMERICAN UNIVERSITY OF BEIRUT, New York, NY; Fouad A Zouein, American Univ of Beirut Medical Ctr, Beirut, Lebanon
- P265 **Hypertension, Vascular Dysfunction And Downregulation Of The Renin Angiotensin System Sequelae Of COVID-19**
Linsay McCallum, Univ of Glasgow, Glasgow, United Kingdom; Stefanie Lip, Glasgow; Francisco J Rios, UNIVERSITY OF GLASGOW, Glasgow; Karla B Neves, Univ of Glasgow, Glasgow; Jason Kilmartin, Eleanor Murray, Univ of Glasgow, Glasgow, Glasgow; Salil Reetoo, Laura Knox, NHS Greater Glasgow and Clyde, Glasgow; Maggie Rostron, Angela Lucas-herald, Clea du Toit, Glasgow; Tomasz J Guzik, Christian Delles, UNIVERSITY OF GLASGOW, Glasgow; Augusto C Montezano, ICAMS - UNIV OF GLASGOW, Glasgow, Canada; Anna F Dominiczak, UNIVERSITY GLASGOW, Glasgow; Sandosh Padmanabhan, GLASGOW UNIVERSITY, Glasgow; Rhian M Touyz, UNIVERSITY OF GLASGOW, Glasgow
- P266 **Hypertensive Response In Recently Covid-19 Vaccinated Patients**
ELIAS SANIDAS, DIMITRIOS PAPADOPOULOS, MARINA MANTZOURANI, MARIA VELLIU, THEOCHARIS ANASTASIOU, ANASTASIA FOTSALI, JOHN BARBETSEAS, LAIKO General Hosp, Hypertension Excellence Ctr, Athens, Greece
- P267 **Arbidol, A Targeted Covid-19 Therapy, Inhibited Contractile Responses To Phenylephrine In Mesenteric Arteries And Aortas Of Hypertensive Rats**
Olufunke O Arishe, Stephanie Wilczynski, Anna Thamasett, Clinton R Webb, Univ of South Carolina, Columbia, SC
- P268 **The Impact Of Covid-19 On A Large Pragmatic Clinical Trial Embedded In Primary Care**
Cynthia Hau, Sarah Leatherman, Alison Klint, Boston Cooperative Studies Program Coordinating Ctr, Boston VA Healthcare System, Boston, MA; Peter Glassman, Pharmacy Benefits Management Services, Dept of Veteran Affairs, Washington DC; VA Greater Los Angeles Healthcare System; David Geffen Sch of Med at UCLA, Los Angeles, CA; Addison Taylor, Michael E. DeBakey VA Medical Ctr, Houston, TX; WILLIAM CUSHMAN, Univ of Tennessee Health Science Ctr, Memphis, TN; Areef Ishani, Minneapolis VA Healthcare System, Minneapolis, MN
- P269 **Influence Of Sex, Race, And Changes In Vital Signs In Covid-19 And Flu Diagnosed Patients In Mississippi**
Brigitte E Martin, Univ of Mississippi Medical Ctr, Madison, MS; Michael R Garrett, UNIVERSITY OF MISSISSIPPI MED CNTR, Jackson, MS
- P270 **Covid19 Hypertension In Primary Care**
Laura Moreno, Thunder Healthcare, Oklahoma City, OK

Vascular Biology, Remodeling, Dysfunction, Stiffness

- P271 **Delineating Sex-specific Mechanisms Of Impaired Vasoreactivity In Thermoneutrality**

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- P272 **Mechanisms By Which Aldosterone And Insulin Stimulate Endothelial Cell Sodium Currents.**
Yan Yang, Liping Zhang, Alan Parrish, Guanghong Jia, Annayya Aroor, James R Sowers, Michael A Hill, Univ of Missouri, Columbia, MO
- P273 **Role Of ER Stress In ET-1 Induced Vascular Hypercontractility During Hypertension**
YU WANG, Univ of Glasgow, Glasgow, United Kingdom; Livia Camargo, Martin McBride, Univ of Glasgow, Glasgow; Augusto C Montezano, ICAMS - UNIV OF GLASGOW, Glasgow, Canada; Rhian M Touyz, UNIVERSITY OF GLASGOW, Glasgow
- P274 **Inhibition Of Abnormal Exosome Release Prevents Excessive Aortic Stiffness And Relaxation Dysfunction In Diet-induced Obesity**
Javad Habibi, Vincent Gerard DeMarco, Univ of Missouri, Columbia, MO; Dongqing Chen, Jack L. Hulse, Univ of Missouri Sch of Med, Columbia, MO; Adam Whaley-connell, UNIVERSITY MISSOURI, Columbia, MO; Michael A Hill, UNIVERSITY OF MISSOURI, Columbia, MO; James R Sowers, UNIVERSITY MISSOURI SCHOOL MEDICINE, Columbia, MO; **Guanghong Jia**, Univ of Missouri Sch of Med, Columbia, MO
- P275 **Deletion Of Endothelial Leptin Receptor Elevates Blood Pressure And Impairs Endothelial-dependent Relaxation Via Upregulation Of Endothelial Glycolytic Enzyme 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3)**
Reem T. Atawia, Jessica L. Faulkner, Augusta university, Augusta, GA; Simone Kennard, Vinay Mehta, Galina Antonova, David Fulton, Augusta Univ, Augusta, GA; Vijay S. Patel, Muhammad I. Saeed, Eric J. Belin de Chantemèle, Augusta university, Augusta, GA
- P276 **A High Sodium Diet Reduces Cutaneous Microvascular Function In Normotensive Individuals With Salt Sensitive Blood Pressure**
Jordan C Patik, Joseph M Stock, Nathan T Romberger, Shannon L Lennon, William B Farquhar, David G Edwards, Univ of Delaware, Newark, DE
- P277 **β -arrestin-2-mediated Vasodilatation In Mouse Mesenteric Arteries**
Victor M Pulgar, Krisztian Toth, Campbell Univ, Buies Creek, NC
- P278 **Coronary Microvascular Dysfunction Is Associated With Augmented Autophagy-lysosomal Signaling In Mice With Hypercholesterolemic Diet**
Yun-Ting Wang, Wei Zhao, Ashton A Huckaby, Xiang Li, Yang Zhang, UNIVERSITY OF HOUSTON, Houston, TX
- P279 **Glycocalyx Restoration Reduces Arterial Stiffness In Diabetic Female Mice**
Camila Manrique Acevedo, Univ of Missouri, Columbia, MO; Francisco Ramirez-Perez, Francisco Ramirez, Columbia, MO; Rogerio N Soares, Thomas J Jurrissen, Thaysa Ghiarone, Mariana Morales-Quinones, Francisco J Cabral-Amador, Univ of Missouri, Columbia, MO; Hans Vink, Maastricht Univ Medical Cente, Maastricht, Netherlands; Christopher A Foote, Univ of Missouri, Columbia, MO; Luis Arturo Martinez-Lemus, Univ of Missouri-Columbia, Columbia, MO; Jaume Padilla, Univ of Missouri, Columbia, MO
- P280 **CCL5 Causes Vascular Injury Via CCR5 And Nadph Oxidase 1- Derived Ros**
Shubhnita Singh, Ariane Bruder Nascimento, Anita Bargaje, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Thiago Bruder Nascimento, UNIVERSITY OF PITTSBURGH, PITTSBURGH, PA
- P281 **Vascular Remodeling And Impaired Vascular Smooth Muscle Cell Plasticity In Age And Sex-dependent Hypertension**

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P282 **Time Restricted Feeding In Mice On A Chronic High Fat Diet Leads To Reduced Aortic Damage And Oxidative Stress**

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P283 **CCL5 Acts As A Vasoconstrictor On Penetrating Arterioles In The Cerebral Circulation By Enhancing 20-HETE Activity**

Reece F Crumpler, Huawei Zhang, Xing Fang, Shaoxun Wang, Baoying Zheng, Parker S Elliot, Jane J Ryu, Luke Strong, Kirby N Thomas, Fan Fan, Richard J Roman, Univ of Mississippi Medical Ctr, Jackson, MS

P284 **The Association Of Oral Hypofunction And Increased Arterial Stiffness**

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P285 **Aging In Male Mice Is Characterized By Arterial Stiffening And Diastolic Dysfunction**

Benard O Ogola, Bruna Visniauskas, Isabella Kilanowski-doroh, Caleb M Abshire, Alec Horton, Zaidmara Diaz, Murad Laradji, Margaret Zimmerman, Sarah H Lindsey, Tulane Univ, New Orleans, LA

P286 **ARTERIAL STIFFNESS IN OLDER FRAGILE PATINETS WITH ORTHOSTATIC HYPOTENSION**

Alexandra Lusina, **Kseniia Eruslanova**, Alexandra Lelkova, Nadejda Runihina, Rg NKC, Moscow, Russian Federation; Yulia Kotovskaya, Moscow, Russian Federation; Olga Tkacheva, Rg NKC, Moscow, Russian Federation