International Society of Hypertension (ISH)

3rd ISH New Investigators’ Symposium on Hypertension and Cardiovascular Disease

Tuesday 10th September 2013

New Orleans Marriott
New Investigator Committee

The New Investigator Committee (NIC) is charged with encouraging and supporting New Investigator Network initiatives to attract and retain younger members in the ISH. The NIC Core members include: M. Tomaszewski (Chair), D. Burger, F. Charchar, A. Schutte and P. Veerabhadrappa.

Four NIC Working Groups – (1) Awards & Evaluation (2) Finance (3) Media and (4) Recruitment were established at the start of 2013 to strengthen and further develop network activities and ensure regional representation where possible. Each group is lead by an NIC member.

The ISH New Investigators Network (ISHNIN)

The ISH New Investigator Network was established by the NIC to serve as a platform for interaction between students and new investigators and allow new avenues for communication, collaboration and education.

The New Investigator Network provides opportunities for all new scientists within the ISH to interact and build relationships, as well as to gain experience and exposure within and outside the Society. Numerous initiatives are aimed at fostering relationships between researchers across the globe: web and video casts, a quarterly newsletter, New Investigator of the month initiative etc. Moreover, an annual New Investigators’ Symposium is held to promote research and careers of young investigators. This is organized, executed, adjudicated, and moderated by new scientists within the ISH. The network maintains a social media presence on both Facebook and Twitter.
The 3rd ISH New Investigators’ Symposium
Tuesday 10th September 2013,
Marriott Hotel, New Orleans, USA

08.00-08.30 REGISTRATION

08.30-08.40 Welcome
Maciej Tomaszewski, University of Leicester, UK / Chair - ISH New Investigator Committee (NIC)

08.40-09.40 SESSION 1: BLOOD VESSELS
Chairs: Richard Wainford, Rana El Bikai
Moderator: Fadi Charchar

08.40-08.52 1.1 Angiotensin 1-7 Reduces Mortality and Rupture of Intracranial Aneurysms in Mice
Pena Silva RA1,2, Kung DK1, Mitchell IJ1, Alenina N3, Bader M4, Santos RAS4, Heistad DD1, Hasan DM1
1University of Iowa, Iowa City, United States of America, 2Universidad de los Andes, Bogota, Colombia, 3Max-Delbrück Center for Molecular Medicine, Berlin, Germany, 4Federal University of Minas Gerais, Minas Gerais, Brazil

08.52-09.04 1.2 The creation of an iliofemoral arteriovenous fistula in patients with severe hypertension: a prospective non-randomized open label multi-center study
Brouwers S1, Dolan E2, Galvin J3, Schoors D1
1UZ Brussel, Brussel, Belgium, 2Connolly Hospital Blanchardstown, Dublin, Ireland, 3Mater Private Hospital, Dublin, Ireland

09.04-09.16 1.3 Differential Effects of 17β-estradiol and 16α-hydroxyestrone in Oxidative Stress and Proliferative Responses in Human Pulmonary Artery Smooth Muscle Cells - Implications in Pulmonary Arterial Hypertension
Hood KY, Montezano AC, MacLean MR, Touyz RM
Institute of Cardiovascular and Medical Sciences, University of Glasgow, Glasgow, United Kingdom

09.16-09.28 1.4 Altered vascular reactivity in mice overexpressing adipocyte mineralocorticoid receptors - role of oxidative stress and rho kinase
NGUYEN DINH CAT A1, ANTUNES TT2, CALLERA GE2, MONTEZANO AC1, HE Y2, JENKINS C1, CARTER A2, JAISSE F3, TOUYZ RM1,2
1Institute of Cardiovascular and Medical Sciences, University of Glasgow, Glasgow, United Kingdom, 2Kidney Research Centre, Ottawa Hospital Research Institute, University of Ottawa, Ottawa, Canada, 3INSERM U872 Team 1, Centre de Recherche des Cordeliers, Paris, France

09.28-09.40 1.5 Mineralocorticoid Receptor Antagonism Prevents Vascular Remodeling in Mesenteric Arteries of Mice with Type 2 Diabetes
Silva MAR1, Cau SBA1, Manzato CP1, Touyz RM2, Tostes RC1
1University of Sao Paulo - Medical School of Ribeirao Preto - Department of Pharmacology, Ribeirao Preto, Brazil, 2University of Glasgow - Institute of Cardiovascular and Medical Sciences, Glasgow, United Kingdom

09.40-10.25 COFFEE AND POSTER VIEWING
10.25-11.37  
**SESSION 2: HEART**

**Chairs:** Sofie Brouwers, Ruan Kruger  
**Moderator:** Dylan Burger

10.25-10:37  
2.1 **Differential Expression of Angiotensin-(1-12)/chymase in Human Atrial Tissue**  
Nagata SN¹, Varagic JV¹, Simington SWS¹, Ahmad SA¹, VonCannon JLV¹, Wang HW¹, Groban LG², Kon NDK³, Dell'Italia LJJD³, Ferrario CMF³  
¹Wake Forest School of Medicine, Winston-Salem/NC, United States of America, ²University of Alabama Medical Center, Birmingham/AL, United States of America

10.37-10.49  
2.2 **TRAF3IP2 mediates aldosterone-induced cardiac hypertrophy and fibrosis**  
Sakamuri SSVP¹, Jalahalli Mariswamy S¹, Jason GD², Ulrich S³, Bysani C¹  
¹Heart and Vascular Institute, Tulane University School of Medicine, New Orleans, Louisiana, United States of America, ²Physiology, Louisiana State University Health Sciences Center, New Orleans, Louisiana, United States of America, ³Laboratory of Immunoregulation, NIAID/NIH, Bethesda, Maryland, USA, United States of America

10.49-11.01  
2.3 **Investigating the role of epidermal growth factor receptors in angiotensin II-induced hypertrophic signalling in cardiomyocytes**  
Wang Z, Chan HW, Chen C, Thomas WG, Paravicini TM  
University of Queensland, Brisbane, Australia

11.01-11.13  
2.4 **Histone deacetylase inhibition prevents cardiac remodeling in mice carrying the disruption of guanylyl cyclase/natriuretic peptide receptor-A gene**  
Subramanian U, Kumar P, Pandey K  
Tulane University, New Orleans, United States of America

11.13-11.25  
2.5 **Novel role of Aminopeptidase A enzyme in Ang-(1-7) metabolism post myocardial infarction**  
Alghamri M¹, Grobe N¹, Meszaros G², Luther D², Elased K¹, Morris M¹  
¹wright State University, Dayton, United States of America, ²Northeast Ohio medical school, Rootstown, United States of America

11.25-11.37  
2.6 **BMI as Surrogate for Cholesterol to Calculate Coronary Risk: Improved Results with Carotid Total Plaque Area**  
Romanens MR¹, Spence JDS², Perez HAP³, Garcia NHG³, Armando LJA³  
¹Vascular Risk Foundation, Olten, Switzerland, ²Robarts Research Institute, London, Canada, ³Inicsa, Cordoba, Argentina

11.45-12.57  
**SESSION 3: HYPERTENSION**

**Chairs:** Augusto Montezano, Ricardo Pena-Silva  
**Moderator:** Maciej Tomaszewski

11.45.11.57  
3.1 **CD8+ T cells elicited by an apoB-100 related peptide vaccine mediate protection against angiotensin II-induced hypertension and renal fibrosis**  
Honjo TH, Dimayuga PD, Chyu KC, Zhao XZ, Zhou JZ, Yano JY, Lio WL, Trinidad PT, Cercek BC, Shah PS  
Cedars-Sinai Medical Center, Los Angeles, United States of America

11.57-12.09  
3.2 **ACE2 Overexpression Prevents DOCA-Salt Hypertension by Modulating Cyclooxygenase Mediated Neuro-inflammation in the Central Nervous System**  
Sriramula S, Xia H, Lazartigues E  
Louisiana State University Health Sciences Center, New Orleans, United States of America
12.09-12.21  3.3  Angiogenesis Inhibition-Induced Hypertension and Nephrotoxicity: Not All Antihypertensives are the same
Lankhorst S1, Kappers MH1, van Esch JHM1, Smedts FMM2, Sleijfer S1, van den Meiracker AH1, Danser AHJ1
1Erasmus Medical Center, Rotterdam, Netherlands, 2Reinier de Graaf Groep, Delft, Netherlands,
3Amphia Hospital, Breda, Netherlands

12.21-12.33  3.4  PVN Gai2 Subunit Proteins - The Key to a Salt-resistant Phenotype?
Wainford RD, Kuwabara JT
Boston University, Boston, United States of America

12.33-12.45  3.5  Nanoformulated Copper/Zinc Superoxide Dismutase: Alternative Therapeutic Strategy for Angiotensin II-dependent Neurogenic Hypertension
Savalia KK1, Manickam DS2, Rosenbaugh EG1, Tian J1, Ahmad IM1, Kabano AV2, Zimmerman MC1
1University of Nebraska Medical Center, Omaha, United States of America, 2University of North Carolina, Chapel Hill, United States of America

12.45-12.57  3.6  Progesterone supplementation attenuates hypertension and AT1-AA in response to elevated IL-6 during pregnancy
Amaral LMA1, Cornelius DC1, Wallace KW2, Kipproko LK2, Moseley JN1, Herse FH3, Wallukat GW3, Martin JNM2, Dechend RD1, LaMarca BL1
1Pharmacology, University of Mississippi Medical Center, Jackson, United States of America, 2Obstetrics and Gynecology of Mississippi Medical Center, Jackson, United States of America, 3HELIOS Clinic, Charite, Campus-Buch & Max-Delbrueck Center, Berlin, Germany

12.57-14.15  LUNCH AND POSTER VIEWING

14.15-15.00  KEYNOTE LECTURE SESSION
Chair: Maciej Tomaszewski
OMG! From Sequester and Beyond: Am I Going to Make it as a Scientist?
Keynote lecturer: Dr. Jane F. Reckelhoff, Ph.D.
Billy S. Guyton Distinguished Professor,
Director, Women's Health Research Center University of Mississippi Medical Center

15.00-16.00  SESSION 4: METABOLISM & INFLAMMATION
Chairs: Eric George, Marianne Bertagnolli
Moderator: Alta Schutte

15.00-15.12  4.1  Endoplasmic reticulum (ER) stress in the subfornical organ (SFO) induces peripheral inflammation in angiotensin II (Ang-II)-dependent hypertension
Lob HEL1, Song J1, Butler SD1, Mark AL2, Davisson RL1,3
1Cornell University, Ithaca, United States of America, 2University of Iowa, Iowa City, United States of America, 3Weill Cornell Medical College, New York City, United States of America

15.12-15.24  4.2  Activation of the cholinergic anti-inflammatory pathway prevents the development of hypertension and renal injury during chronic inflammatory disease
Mathis KW
University of Mississippi Medical Center, Jackson, United States of America

15.24-15.36  4.3  Torcetrapib and dalcetrapib, ctep inhibitors, induce adipocyte-derived aldosterone and reactive oxygen species formation
RIOS FJ, NGUYEN DINH CAT A, PALACIOS R, CARSWELL A, MONTEZANO AC AC, TOUYZ RM
BHF Glasgow Cardiovascular Research Centre - University of Glasgow, Glasgow, United Kingdom
The Nox4 inhibitor GKT137831, prevents aldosterone production by adipocytes and protects against adipose tissue inflammation and fibrosis in obese mice

Even S1, Nguyen Dinh Cat A1, Rios FJ1, Antunes TT2, Briet M2, He Y2, Callera GE2, Carswell A1, Jenkins C1, Jandeleit-Dahm K3, Cooper M3, Szynadlewiez C4, Page P4, Montezano AC1, Touyz RM1,2

1Institute of Cardiovascular and Medical Sciences, University of Glasgow, Glasgow, United Kingdom, 2Kidney Research Centre, Ottawa Hospital Research Institute, University of Ottawa, Ottawa, Canada, 3Baker Institute, Melbourne, Australia, 4Genkyotex, Geneva, Switzerland

Hypoxia-induced sFlt-1 production is enhanced in placental villi from obese MC4R deficient rats

Palei AC, Spradley FT, Granger JP
University of Mississippi Medical Center, Jackson, United States of America

Angiotensin-II-mediated hypertension is associated with ACE2 internalization and degradation in the central nervous system

Xia HX, Deshotels MD, Filipeanu CF, Lazartigues EL
Louisiana State University Health Sciences Center, New Orleans, United States of America

Investigating the Dahl salt sensitive (S) rat as a spontaneous model of preeclampsia-comparison to the Spontaneously Hypertensive Rat (SHR)

Gillis EE, Mooney JN, Williams JM, Garrett MR, Sasser JM
University of Mississippi Medical Center, Jackson, United States of America

Fructose stimulates Na/H exchanger 3 activity and enhances the ability of ANG II to activate Na/H exchanger 3 in the proximal tubule

Cabral P, Garvin J
Case Western Reserve University, Cleveland, United States of America

Age impacts circulating testosterone levels in male intrauterine growth restricted rats leading to glucose intolerance and alterations in programmed hypertension

Intapad S, Fahling J, Alexander BT
University of Mississippi Medical Center, Jackson, United States of America

Hemeoxygenase-1 induction increases βENaC in ischemic placentas and cultured Cytotrophoblasts

Warrington JP, George EM, Stec DE, Ryan MJ, Granger JP, Drummond HA
University of Mississippi Medical Center, Jackson, United States of America

Closing Remark and Presentation of Awards

NIC members
P.01 Interleukin-1 potentiates NO-driven sodium retention through upregulation of the Na+K+2Cl- cotransporter in Angiotensin II-dependent hypertension
Zhang JD, Patel MB, Griffiths R, Crowley SD

P.02 Effects of a stable angiotensin-(1-7) analogue, cyclic angiotensin-(1-7), on progenitor cell recruitment and cardiac remodeling
Sevá Pessôa B, Van Veghel R, JanDanser AH, Roks AJM

P.04 Hypertension in a rat model of postmenopausal hyperandrogenemia (polycystic ovary syndrome): Roles of the renin-angiotensin and sympathetic nervous systems

P.05 Improved Prediction Of Adverse Pregnancy Outcome With The sFlt-1/PIGF Ratio In Patients Suspected Of Preeclampsia?
Verdonk K, van Ingen M, Smilde JE, Steegers EAP, Danser AHJ, van den meiracker AH, Visser W

P.06 Serotonin Signaling Through Nox1 in Human Pulmonary Artery Smooth Muscle Cells - Implications in Vascular Remodeling in Pulmonary Arterial Hypertension
Hood KY, Montezano AC, Morecroft I, MacLean MR, Touyz RM

P.07 Increased blood pressure variability: an independent marker to morbimortality

P.08 Activation of Nrf2 by Exercise Training and Curcumin Contributes to Sympatho-Inhibition in Heart Failure
Haack KKV, Harlow AM, Zucker IH

P.09 Both Maternal Systemic and Paternal-Derived Placental Trophoblast TLR3 Activation Are Necessary for the Development of Preeclampsia in Mice
Chatterjee PC, Chiasson VLC, Kopriva SEK, Mitchell BMM

P.10 Soluble Angiotensin Converting Enzyme 2 as an Additional Source of Blood Pressure Regulation within the Kidney
Ortiz-Melo DI, Mattevos NK, Xu K, Griffiths R, Gurley SB

P.11 Exercise training attenuates hypertension and insulin resistance in old fructose-fed ovariectomized rats
F Machi J, Bernardes N, Dias D, Moraes-Silva I, Dos Santos F, Sartori M, B Wichi R, de Angelis K, C Irigoyen. M

P.12 Diminished Endothelial Fibrinolytic Function With Prehypertension
Diehl KJ, Weil BR, Greiner JJ, Stauffer BL, DeSouza CA

P.13 Hypertension in Late-Onset mtDNA Diseases
Hannah-Shmounit F, Sirrs S, Mattman A

P.19 Intrarenal Ghrelin Receptor Antagonism Inhibits cAMP-Mediated Angiotensin II Sodium Reabsorption in Normal Rats
Kemp BA, Howell NL, Padia SH

P.20 Deterioration of Kidney Function by the (Pro)renin Receptor Blocker Handle Region Peptide in Aliskiren-treated Diabetic Transgenic (mRen2)27 Rats

P.21 Aerobic training induces time-course changes in ACE2-Ang-(1-7)-Mas receptor axis and reactive oxygen species in the heart of spontaneously hypertensive rats
Silva Júnior SD, Casarini DE, Michelinii LC

P.22 Epoxeyicosatrienoic acids activation of adenosine A2A receptor improves endothelial dysfunction via increased nitric oxide levels in mice model of metabolic syndrome
Elmarakby A, Pye C, Baban B

P.23 Norepinephrine Evoked Salt-Sensitive Hypertension Results in Impaired NCC Function, But Not Expression
Walsh KW, Kuwabara JTK, Mahne SM, Wainford RDW

P.24 Fibulin-1, a marker of cardiac fibrosis, is related to soluble uPAR in a bi-ethnic male population: the SAAfrEIC study
Du Plooy C, Kruger R, Huisman HW

P.25 Brain Angiotensin II elevates bone marrow sympathetic drive
Zubcevic J, Santisteban MM, Raizada MK, Baeky DM

P.26 (Pro)renin Receptor (PRR) Regulates Renal Distal Sodium Reabsorption via Enhancing Expression of Epithelial Sodium Channel
Quadri SSA, Siragy HM

P.27 (Pro)renin Receptor (PRR)-SGK1 Signal Pathway Enhances Epithelial Sodium Channel (ENaC) Expression in Mouse Inner Medullary Collecting Duct Cells (mIMCDs)
Quadri SSA, Siragy HM

P.28 Angiotensin II via its type 1 receptor up-regulates (pro)renin receptor expression in DOCA-salt hypertension
Li W, Feng Y
High Salt (NaCl) Affects H3K4 Trimethylation And Alternative Macrophage Activation


Eplerenone increases dilation and the diameter of cerebral penetrating arterioles in rats with sustained hypertension.
Pires PW, Jackson WF, Dorrance AM

Atorvastatin downregulates vascular Nox expression and ameliorates oxidative stress-associated inflammatory process in type 2 diabetic db/db mice

Atorvastatin inhibits Src/ROS-mediated redox sensitive and pro-inflammatory actions of aldosterone in Vascular Smooth Muscle Cells: focus on statins pleiotropic effects

Intrarenal Ghrelin Receptor Blockade Induces Natriuresis and Diuresis in SHR
Kemp BA, Howell NL, Padia SH

Angiotensin II in combination with high salt causes increased Prostaglandin D2 Levels and down-regulation of neuronal Prostaglandin D1 Receptor expression in Rostral Ventrolateral Medulla
Asirvatham-Jeyaraj N, Jones DA, Fink GD

Bcl10 Deficiency of Both Cardiac Cells and Bone Marrow Derived Cells Attenuates Angiotensin (Ang) II-induced Target Organ Damage

Inflammatory Biomarkers are Improved Subsequent to an Aerobic Exercise Training Intervention in African Americans

Effect of Central Sympatholytic Treatment on the Anti-Hypertensive Response of Renal Denervation in the Spontaneously Hypertensive Rat
Phelps JT, Fink GD

Enhanced vasorelaxation response of resistance arteries from obese MC4R deficient pregnant rats
Spradley FT, Palei AC, Granger JP

Interleukin 17 production induced by angiotensin II type 2 receptor activation in T cells drives flow-mediated outward remodeling of mouse resistance arteries

Cardioprotective influence of trait forgiveness: the role of cardiac autonomic modulation, aortic hemodynamics, and nocturnal blood pressure
May RW, Sanchez-Gonzalez MA, Koutnik AP, Hughes RM, Fincham FD

Nrf2 mediates the antioxidant effect of D2R via DJ-1 in the kidney
Cuevas S, Yang Y, Asico L, Jones J, Armando I, Jose P

Medullary Endocannabinoid Content Contributes to the Differential Resting Baroreflex Sensitivity in Rats with Altered Brain Renin-Angiotensin System Expression
Schaich CL, Howlett AC, Thomas BF, Grubenauer MA, Diz DI

Hydrogen peroxide stimulates renin release from mouse juxtaglomerular cells by enhancing cAMP
Mendez M

Individuals with higher levels of distress have reduced cardiovascualr modulation after an interpersonal speech task
Koutnik AP, Sanchez-Gonzalez MA, May RW, Fincham FD

Impact of anxiety symptoms on cardiovascular autonomic modulation: Does anxiety mimic age-related autonomic dysfunction?
Sanchez-Gonzalez MA, May RW, Koutnik AP, Fincham FD

Augmented Myogenic Responses in Cerebral Arteries Following Interference with Peroxisome Proliferator-Activated Receptor γ (PPARγ) in Smooth Muscle via a Rho Kinase (ROCK)-Dependent Mechanism
De Silva TM, Ketsawatsomkron P, Pelham C, Sigmund CD, Faraci FM

Transient neonatal high O2 exposure leads to renin angiotensin system activation and early cardiac dysfunction in rats

ACE2-Independent Effect of XNT in Ang II-Induced Hypertension
Ye M, Haber PK, Wysocki J, Raizada M, Battle D

Leptin-mediated cardiovascular disease involves sex-specific mechanisms
Huby AC, Tremblay ML, Bollag W, Dong Y, Belin De Chantemelle EJ
Does cardiac Ang-(1-12) have a role in sex-specific heart disease?

Development of a chronic angiotensin II (AngII)-stimulated neuronal cell culture model
Basu UB, Case AC, Madayiputhiya NM, Zimmerman MCZ

Hypertension and vascular ageing are risk factors for a decreased bone mineral density and fractures

The Presence of an Adrenergic System in Perivascular Adipose Tissue
Ayala N, Jackson WF, Wilson JN, Burnett R, Martini MC, Frimodig KJ, Fink GD, Watts SW

Blood Pressure Monitoring In The Biological Time Structures and In Pre-/Post-Surgery Seasonal Variations
Lee MS, Lee JS, Halberg F, Lee JY

Brain Gαq2 proteins mediate acute neural blood pressure responses to centrally and peripherally administered NaCl
Carmichael CY, Mahne S, Wainford RD

Does Obesity Alter the Normal Cardiovascular and Renal Adaptations of Pregnancy?
Cai X, Kett MM

Role of STAT3 in Collagen Deposition and Organization in the Normal and Hypertensive Heart
Zouein FA, Kurdi M, Booz GW, Fuseler J

Carotid artery intima media thickness in women but not in men correlates with cardiac hypertrophy and age
de Oliveira FG, Pereira Jr. VL, Campos LA, Baltatu OC

The Population Impact and Cost-Effectiveness of Blood Pressure Treatment in U.S. Adults Age 75 and Older
Odden MC, Coxson PG, Moran A, Guzman D, Goldman L, Bibbings-Domingo K

Aortic Smooth Muscle Cell Stiffness as a Mechanism for the Increased Aortic Stiffness when Aging is Superimposed on Hypertension

The Influence Of Long Term Voluntary Exercise On Cardiac Autonomic Function In Conscious Chronic Kidney Disease Animals
Kandukuri DSK, Hildreth CMH, GoodChild AKG, Nalivaiko EN, Phillips JKP

Arterial compliance is the main determinant of systolic central blood pressure and central pulse pressure in young hypertensives
Romero CA, Tabares AH, Peixoto AJ, McEniery C, Orias M

HEALS Program implementation in African American churches for Hypertension Control and Prevention
Dodani S, Arora S, Mahin C, Kraemer D

Deficiency of angiotensinogen in liver markedly reduces blood pressure in lean and obese male C57BL6 mice
Yiannikouris FY, English VE, Su WS, Gong MG, Cassis LC

Prevalence of Resistant Hypertension Among Patients Undergoing 24-hour Ambulatory Blood Pressure Monitoring
Shahrivari M, Kurklinsky AK, Haley WE, Moussa ID

Adiponectin is not associated with hypertension and kidney damage in rural population
Ivkovic V, Jelakovcic M, Laganovic M, Bozina T, Lela-Vukovic I, Karanovic S, Premuzic V, Pecin I, Jelakovcic B

Radiofrequency Renal Nerve Ablation Attenuates Hypertension in Spontaneously Hypertensive Rats
Gao JG, Kerut KK, Smart FS, Kapusta DK

Renal Denervation Decreases Alpha 1 Adrenergic Receptor Protein in the Renal Cortex of Rabbits with Chronic Heart Failure
Schiller AM, Haack KV, Curry PL, Zucker IH

Hypertension and Multi-organ Endothelin-1 activation in women and rats with a severe form of preeclampsia
Wallace K, Morris R, Chatman K, Moseley J, LaMarca BB

Blood pressure and kidney function in PRCP deficient mice
Maier C, Wysocki J, Ye M, Haber P, Schmaier AH, Batlle D

Elevated C-Reactive Protein Contributes to Preeclampsia via Kinin Signaling Pathways

Relationship of Arginine Vasopressin and Blood Pressure in Patients with Orthostatic Intolerance and Nausea
Wagoner AI, Shaltout HA, D'Agostino RB, Diz DI, Fortunato JE

Temporal and whole transcriptome analysis of differential gene pattern expression in response to a high fat diet
Faulkner JL, Gomolak JR, Garrett MR, Didion SP

Low-intensity resistance exercise training improves cardiovascular dysautonomia and systolic function in diabetic rats
Moraes OA, Arruda P, Cardoso Jr R, Scapini KB, Mostarda C, De Angelis K, Irigoyen MC
Development of a Stabilized Bioactive VEGF Chimera for the Management of Preeclampsia
George EM, Liu H, Bidwell GL

Increased blood pressure variability and baroreflex impairment in patients with end-stage renal disease undergoing hemodialysis
Scapini KB, Hong VC, Ferreira JB, Souza SBC, Ferreira NV, Moraes OA, Consolim-Colombo FM, De Lima JJ, Mostarda C, Irigoyen MC

Redox-sensitive osteogenic factors as novel mediators of vascular injury in hypertension
Montezano AC, Yusuf H, Graham D, Touyz RM

Myd88-deficiency limits serotonin-induced contraction in carotid artery, but not hypertension or endothelial dysfunction, produced by chronic angiotensin ii infusion
Gomolak JR, Faulkner JL, Didion SP

Histone deacetylase 9 contributes to sex differences in intrarenal angiotensinogen transcription
Bourgeois CT, Satou R, Prieto M

Evaluation of Hyperglycemia-Driven Alterations on Vascular Endothelial Function
Hoffmann BR, Prisco AR, Widlansky ME, Greene AS

High Glucose Attenuates In Vitro Tube Growth of Microvascular Endothelial Cells
Prisco AR, Hoffmann BR, Bukowy JD, Greene AS

Prorenin Receptor enhances renin activity in the urine of diabetic patients

TRAF3IP2 gene knockout decreases atherosclerosis progression and increases plaque stability in Apolipoprotein E (ApoE)-deficient mice
Sakamuri SSVP, Higashi Y, Sukhanov S, Jalahalli Mariswamy S, Ulrich S, Bysani C

Nitroxyl Anion is a Primary Mediator of Vascular Relaxation in Resistance Vessels
Wynne BM, Labazi H, Tostes RC, Webb RC

Role of prolyl carboxypeptidase in renovascular hypertension
Leiva O, Elased KM, Morris M, Grobe N

Antenatal Betamethasone Exposure Markedly Reduces the Levels of Ang-(1-7) in Cerebrospinal Fluid
Marshall AC, Shaltout HA, Pirro NT, Rose JC, Diz DI, Chappell MC
The ISH NIC would like to thank the following people and organisations for their invaluable support of the 3rd ISH New Investigators’ Symposium.

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For further information on membership of the Society or the New Investigators Network please contact the NIC via the ISH Secretariat.
Email: secretariat@ish-world.com.

We also encourage you to speak to the ISH New Investigator Committee and Working Group members at the Symposium.

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