



Research where Osmotic Pumps were Used American Physiology Summit, Long Beach, CA Thursday April 4th – Friday April 5th

Thursday April 4th 11:45am - 1:15pm, 104BC

Canadian Physiological Society Scientific Symposium 2024

Impact of Renin Angiotensin System Inhibition on Renal Function in Fructose-induced Salt Sensitive Blood Pressure

[†]Presenter: Rebekah Pitpitan, Wayne State University School of Medicine

Thursday April 4th 2:15 - 2:30pm, Rm. 103

Data NCARnation

Role of Angiotensin II on Cardiovascular/Autonomic Function and Cognition in a Novel Mouse Model of Alzheimer's Disease

[†]Presenter: Nusaira Beenta Shahab, University of Iowa

Friday April 5th 12:45 – 12:55pm, Hyatt Beacon Ballroom

Trainee Symposium: Breaking the Mold: Embracing the Unexpected in Physiological Findings Angiotensin II-induced cardiac dysfunction and fibrosis is prevented by cardiomyocyte-specific overexpression of Larp6

[†]Presenter: Jacob Russell, University of Missouri

Friday April 5th 5:15 – 6:05pm

Autonomic Balance: Sympathetic and Parasympathetic

Role of Angiotensin II on Cardiovascular/Autonomic Function and Cognition in a Novel Mouse Model of Alzheimer's Disease

[†]Poster #P0273, Presenter: Nusaira Beenta Shahab, University of Iowa

Cardiovascular Physiology: Other

Prohibitin 1 deletion from activated cardiac fibroblasts in vivo attenuates cardiac fibrosis

Poster #P0563, Presenter: Julie Davis, East Carolina University Brody School of Medicine

Center Control of Autonomic Physiology

Upregulation of miR-361-3p is Associated With Impaired AT2 Receptor Expression in Cardiometabolic Diseases

Poster #P0311, Presenter: Kevin Miao, Louisiana State University Health Sciences Center, USA

Inflammation, Immune System and Autonomic Regulation

Sex differences in a novel transgenic mouse model of Alzheimer's Disease

Poster #P0319, Presenter: Cassandra N. Smith, University of Iowa

Hypertension

Role of Endothelial Nrf2 in the Regulation of Vasomotor Capacity and Arterial Blood Pressure

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Poster #P0477, Presenter: Neha Dhyani, University of Nebraska Medical Center





Friday April 5th 5:15 - 6:05pm

Hypertension

Eplerenone Reduces Blood Pressure and Improves Vascular Function in a Mouse Model of Leptin-induced Preeclampsia

Poster #P0487, Presenter: Elisabeth Mellott, Augusta University, USA

Neuroinflammation/Neuroprotection/Ischemia

A pilot study of a novel brain penetrant Mn(III) porphyrin-based SOD mimic on middle cerebral artery occlusion in mice

Poster #P0369, Presenter: Hiroki Uchikawa, Barrow Neurological Institute

Renal Pathophysiology Associated with Hypertension/Pre-eclampsia and Inflammation

Impact of Renin Angiotensin System Inhibition on Renal Function in Fructose-induced Salt Sensitive Blood Pressure

Poster #P0623, Presenter: Rebekah Pitpitan, Wayne State University School of Medicine

Inhibiting renal Traf2 and NCK interacting kinase (TNIK) decreases NKKC2 phosphorylation and blunts salt-sensitive hypertension

*Poster #P0631, Presenter: Jessica Granados, Henry Ford Health

Sex Differences in Renal Physiology and Pathophysiology

Sex Differences in T Cell Migration from the Spleen to the Kidney in Mice at Baseline and in Response to Angiotensin II Infusion.

*Poster #P0643, Presenter: Lance Benson, University of Alabama at Birmingham

Friday April 5th 6:10 - 7:00 pm

Inflammation, Immune System and Autonomic Regulation

Microglia Mediate Hypertension and Autonomic Dysfunction through Kinin B1 Receptor Activation Poster #P0320, Presenter: Drew Theobald, East Carolina University

Heart Failure

Left Ventricular Dilation Resulting from the Absence of either Rgs2 or Rgs5 is Associated with Increased Immune Cell Infiltration in the Myocardium

Poster #P0466, Presenter: Shelby Dahlen, Case Western Reserve University, USA

Hypertension

Sex-Specific Regulation of Local Gonadal Hormone Signaling During Pathological Cardiac Remodeling in Spontaneously Hypertensive Rats

Poster #P0486, Presenter: Dana Floyd, University of Arizona College of Medicine – Phoenix

Genetic Deletion of Carboxypeptidase N Attenuates Angiotensin II-Induced Hypertension and Target Organ Damage

Poster #P0492, Presenter: Srinivas Sriramula, East Carolina University

Beclin-1-Dependent Autophagy Preserves Perivascular Adipose Tissue Function and Suppresses Hypertension Development in Hyperaldosteronism

Poster #P0494, Presenter: Rafael Costa, University of Pittsburgh





Research where Osmotic Pumps were Used American Physiology Summit, Long Beach, CA Friday April 5th - Saturday April 6th

Friday April 5th 6:10 - 7:00 pm

Kidney Function in Diabetes, Obesity, Metabolic Syndrome and Aging

Juxtaglomerular (JG) cell-specific deletion of the NADPH oxidase accessory protein, NOXA1, decreases pro-renin and proteinuria in vivo in a mouse model of diabetes.

Poster #P0604, Presenter: Mariela Mendez, Henry Ford Hospital/Wayne State University

Renal Pathophysiology Associated with Hypertension/Pre-eclampsia and Inflammation

2-Methoxyestradiol protects from angiotensin II-induced renal CD3+/FOXP3+ T cell-dysregulation via 12/15 lipoxygenase inhibition

Poster #P0624, Presenter: Purnima Singh, University of Tennessee Health Science Center

Water and Electrolyte Balance: Cell, Organ and Whole Organism Physiology

Immune Activation Promotes Cardiac Remodeling in a Mouse Model of Takotsubo Cardiomyopathy Poster #P0380, Presenter: Daniel J. Fehrenbach, IUSM

Saturday April 6th 5:15 - 6:05 pm

Blood Pressure and Hypertension

Male Offspring Exposed to Maternal Hyperandrogenemia Have Exaggerated Pressor Response to Angiotensin II That is Partially Attenuated by Etanercept

Poster #P0245, Presenter: John Agbo, University of Mississippi Medical Center

The Role of Renal Medullary Bilirubin and Biliverdin Reductase in Ang II Induced Hypertension

Poster #P0247, Presenter: Gertrude Arthur, University of Mississippi Medical Center

Blood Pressure Regulation

Mitochondrial AKAP1 is Necessary for Obesity- and Angiotensin II-induced Hypertension

Poster #P0083, Presenter: Yuying Zhao, University of Iowa

Sex and tissue-specific downregulation of miR410-3p in a mouse model of cardiometabolic diseases

Poster #P0093, Presenter: Mohammed Alnoud, Louisiana State University Health Sciences Center, USA

Cardiac Function and Dynamics

Angiotensin II-induced cardiac dysfunction and fibrosis is prevented by cardiomyocyte-specific overexpression of Larp6

Poster #P0101, Presenter: Jacob Russell, University of Missouri

Setmelanotide Administration Improves Cardiac Systolic Function in Sirtuin-3 Deficient Mice

Poster #P0107, Presenter: Benjamin Nelson, University of Mississippi Medical Center

Cardiac: Vascular and Renal Mechanisms

Leptin Induces Evidence of Placental Mitochondrial Dysfunction in a Mouse Model of Preeclampsia

Poster #P0261, Presenter: Elisabeth Mellott, Augusta University





Saturday April 6th 5:15 – 6:05 pm

Cardioprotection

The protective effects of alamandine on angiotensin II-induced cardiac dysfunction and remodeling in rats Poster #P0131, Presenter: Nafis Md Irfan, University of Iowa

Late-breaking Cardiovascular Physiology

Divergent Effects of IL-18- and IL-18R-deficiency on Angiotensin II-induced Abdominal Aortic Aneurysm Formation

Poster #P0903, Presenter: Antony Vinh, La Trobe University

Effects of Donepezil on Nonlinear Arterial Pressure and Pulse Interval Dynamics in Spontaneously Hypertensive Rats (SHR)

Poster #P0907, Presenter: Helio Salgado, Ribeirão Preto Medical School

Myocardial Ischemia

Myocardial CD34+ Stromal Cells/Telocytes Demonstrate a Dynamic Pattern of Interactions with CD68+ Macrophages During Post-Myocardial Infarction Healing

Poster #P0229, Presenter: Daniel Schneider, Cooper Medical School of Rowan University

Sympathetic Physiology and Pathophysiology

Angiotensin II-Induced Heart Failure Disrupts Cardiac Sympathetic Innervation

Poster #P0357, Presenter: Arianna Scalco, Oregon Health & Science University

Saturday April 6th 6:10 - 7:00pm

Acute Kidney Injury: Mechanisms, Treatment and Associated Pathology

Chronic central leptin administration attenuates kidney dysfunction and injury in a model of ischemia/reperfusion-induced acute kidney injury

Poster #P0826, Presenter: Emilio Luna-Suarez, University of Mississippi Medical Center

Blood Pressure and Hypertension

GPER1 Activation Upregulates Renal Purinergic P2Y2 Receptor Expression and Lowers Blood Pressure in Ovariectomized Rats Fed High Salt Diet

Poster #P0236, Presenter: Supaporn Kulthinee, Vanderbilt University Medical Center

Galantamine Reduces Blood Pressure and Renal Injury in Female Angiotensin II-induced Hypertensive Mice

Poster #P0246, Presenter: Sarika K. Chaudhari, University of Texas Southwestern Medical Center