### SUNDAY, JUNE 23, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 p.m.</td>
<td>1.0</td>
<td>Welcome and Opening Remarks</td>
<td>Edward Inscho, Univ. of Alabama</td>
</tr>
<tr>
<td>6:05 p.m.</td>
<td>2.0</td>
<td>Keynote Address</td>
<td>Pavilion I &amp; II</td>
</tr>
<tr>
<td>Chair:</td>
<td></td>
<td>Pablo Ortiz, Henry Ford Hospital</td>
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<tr>
<td>2.1</td>
<td></td>
<td>New frontiers in kidney research: overview of the field</td>
<td>Donald Kohan, Univ. of Utah Health Center</td>
</tr>
<tr>
<td>7:00 p.m. – 8:30 p.m.</td>
<td></td>
<td>Welcome Reception and Dinner</td>
<td>Ballroom</td>
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### MONDAY, JUNE 24, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:00 a.m. – 8:00 a.m.</td>
<td></td>
<td>Breakfast</td>
<td>Ballroom</td>
</tr>
<tr>
<td>8:00 a.m. – 10:00 a.m.</td>
<td>3.0</td>
<td>Session 1: Circadian Biology of Renal and Cardiovascular Function</td>
<td>Pavilion I &amp; II</td>
</tr>
<tr>
<td>Chair:</td>
<td></td>
<td>Michelle Gumz, Univ. of Florida</td>
<td></td>
</tr>
<tr>
<td>8:00 a.m.</td>
<td>3.1</td>
<td>Impact of circadian biology on renal and cardiovascular function</td>
<td>Martin Young, Univ. of Alabama at Birmingham</td>
</tr>
<tr>
<td>8:25 a.m.</td>
<td>3.2</td>
<td>Control of sodium excretion and blood pressure by Bmal1 in rats</td>
<td>Jermaine Johnston, Univ. of Florida</td>
</tr>
<tr>
<td>8:50 a.m.</td>
<td>3.3</td>
<td>Circadian biology of renal and cardiovascular function</td>
<td>Saurabh Thosar, Oregon Health &amp; Science Univ.</td>
</tr>
<tr>
<td>9:15 a.m.</td>
<td>3.4</td>
<td>Glucocorticoid excess induces renal vascular dysfunction and amplifies salt-sensitive hypertension</td>
<td>Hannah Costello, Univ. of Edinburgh</td>
</tr>
<tr>
<td>9:26 a.m.</td>
<td>3.5</td>
<td>Kidney-specific role of the circadian clock protein PER1 in renal Na handling</td>
<td>Lauren Douma, Univ. of Florida</td>
</tr>
<tr>
<td>9:37 a.m.</td>
<td>3.6</td>
<td>Acute stimulation of neuro-adipose connections display increased blood pressure response in mice exposed to early life stress</td>
<td>Carolina Dalmasso, Univ. of Kentucky</td>
</tr>
</tbody>
</table>
9:48 a.m.  3.7 Offspring born to gestational hypertensive pregnancies have increased fasting glucose and proteinuria in early adolescence

*Chelsea Weaver, Univ. of Kentucky*

10:00 a.m. – 10:30 a.m.
Coffee Break
Pavilion Foyer

10:30 a.m. – 12:30 p.m.  4.0 Session 2: Renal Consequences of Obesity, Metabolic Syndrome and Diabetes
Pavilion I & II

*Chair: Lilach Lerman, Mayo Clinic*

10:30 a.m.  4.1 Role of kidney insulin receptors in obesity and insulin resistance - A journey from savory to sweet

*Vivek Bhalla, Stanford Univ. School of Medicine*

10:55 a.m.  4.2 Insulin and glucose effects on renal Na+ handling

*Michael Brands, Medical College of Georgia*

11:20 a.m.  4.3 Renal mitochondrial injury in swine metabolic syndrome

*Alfonso Eirin, Mayo Clinic*

11:45 a.m.  4.4 Shear stress is normalized while hoop stress remains elevated in the diabetic rat glomerulus: a modeling study

*Owen Richfield, Tulane Univ.*

11:56 a.m.  4.5 Metabolomics reveals signature of diabetic kidney disease

*Haiyan Fu, Nanfang Hospital, Southern Medical Univ.*

12:07 p.m.  4.6 Oral NaHCO3 solution impairs response to insulin in type II diabetes in rats

*Elinor Mannon, Medical College of Georgia at Augusta Univ.*

12:18 p.m.  4.7 Novel pathophysiological role of protease-activated receptor 1 in the development of type 2 diabetic nephropathy

*Sherif Khedr, Medical College of Wisconsin*

12:30 p.m. – 1:30 p.m.
Lunch
Ballroom

1:30 p.m. – 3:30 p.m.  5.0 Workshop on Sex and Gender as Research Variables
Pavilion I & II

*Chairs: Jennifer Sullivan, Augusta Univ.
Michael Ryan, Univ. of Mississippi Medical Center*

5:00 p.m. – 6:30 p.m.  6.0 Poster Session 1
Pavilion III
<table>
<thead>
<tr>
<th>Board #</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6.1</td>
<td>Deletion of Epac1 or Epac2 compromises renal Na+ conservation by decreasing activity of the epithelial Na+ channel (ENaC)</td>
<td>Oleh Pochynyuk, Oleg Zaika, Viktor Tomilin, Univ. of Texas Health Science Center at Houston</td>
</tr>
<tr>
<td>4</td>
<td>6.2</td>
<td>Zinc deficiency-induced NFκB activation promotes hypertension by driving renal Na+ reabsorption</td>
<td>Clintoria Williams, Meagan K. Naraine, Cindelynn K. Murta, Dylan S. Schindele, Tara-Yesomi Wenegieme, Ryan P. Elam, Emory Univ.; Wright State Univ.</td>
</tr>
<tr>
<td>7</td>
<td>6.3</td>
<td>Blunted diuretic and natriuretic responses to volume expansion following exposure to chronic intermittent hypoxia</td>
<td>Sara AlMarabeh, Julie O'Neill, Jeremy Cavers, Eric Lucking, Mohammed Abdulla, Ken O'Halloran, Univ. College Cork</td>
</tr>
<tr>
<td>10</td>
<td>6.4</td>
<td>Cell death contributes to sex differences in the control of blood pressure in spontaneously hypertensive rats (SHR)</td>
<td>Mahmoud Abdelbary, Ellen Gillis, Jacqueline Musall, Katherine Covington, Michael Brands, Jennifer Sullivan, Augusta Univ.</td>
</tr>
<tr>
<td>13</td>
<td>6.5</td>
<td>Serum trimethylamine N-oxide concentration is positively associated with first stroke in hypertensive patients</td>
<td>Jing Nie, Liling Xie, Xianhui Qin, Xiping Xu, Youbao Li, Nanfang Hospital, Southern Medical Univ.</td>
</tr>
<tr>
<td>16</td>
<td>6.6</td>
<td>Mitochondrial dysfunction in the heart and kidney during the progression of salt-sensitive hypertension</td>
<td>Sunil M. Kandel, Namrata Tomar, Nadya Zheleznova, Said H. Audi, Allen W. Cowley, Ranjan K. Dash, Medical College of Wisconsin</td>
</tr>
<tr>
<td>19</td>
<td>6.7</td>
<td>Tubular proteinuria in type 2 diabetic rats occurs without a decrease in total megalin or cubilin expression</td>
<td>Mark Bryniarski, Ruben Sandoval, George Rhodes, Silvia Campos-Bilderback, Rabi Yacoub, Sarah Wean, Lee Chaves, Bruce Molitoris, Marilyn Morris, Indiana Univ.; Univ. at Buffalo</td>
</tr>
<tr>
<td>22</td>
<td>6.8</td>
<td>Integrative analysis of clinical data for modeling the costs and outcomes of diabetes</td>
<td>Renuka Panchagavi, Scott Harrison, North Carolina Agricultural and Technical State Univ.</td>
</tr>
<tr>
<td>25</td>
<td>6.9</td>
<td>Long-term consumption of high salt, high fructose diet: effects on blood pressure and mRNA expression of renal NCC and NKCC in female and male mice</td>
<td>Chiedozie Waturuocha, Liming Fan, Al Rouch, Oklahoma State Univ. Center for Health Sciences</td>
</tr>
</tbody>
</table>
6.10 Generation and characterization of thick ascending limb-specific NHE3 knockout mice
Jianxiang Xue, Linto Thomas, Jessica Dominguez Rieg, Timo Rieg, Univ. of South Florida

6.11 Proximal tubule-specific deletion of the NHE3 (Na+/H+ exchanger 3) in the kidney attenuates angiotensin II-induced hypertension in mice
Jia Zhuo, Xu Chen, Dongmin Zhu, Xiaowen Zheng, Chunling Zhao, Manoocher Soleimani, Isabelle Rubera, Michel Tauc, Xiao Li, Université Côte d’Azur; Univ. of Cincinnati; Univ. of Mississippi Medical Center

6.12 Effect of high salt diets on sex hormonal changes in salt-sensitive rats through CaSR-RAS systems
Charles Okechukwu, Emmanuel Awumey, North Carolina Central Univ.

6.13 Potassium regulated phosphatase complex in the distal convoluted tubule
Anamaria Tatomir, Paul Grimm, Eric Delpire, Paul Welling, Univ. of Maryland School of Medicine; Vanderbilt Univ. Medical Center

6.14 In vivo Npt2a inhibition causes phosphaturia and lowers parathyroid hormone
Linto Thomas, Jianxiang Xue, Jessica Dominguez Rieg, Robert Fenton, Timo Rieg, Aarhus Univ.; Univ. of South Florida

6:30 p.m. – 7:30 p.m.
Dinner
Ballroom

7:30 p.m. – 9:00 p.m.
Session 3:
New Signaling Pathways in the Control of Renal Function
Pavilion I & II
Chair: Jennifer Pluznick, Johns Hopkins Univ. School of Medicine

7:30 p.m. 7.1 Extra sensory perception: novel receptors and metabolites in renal and cardiovascular function
Jennifer Pluznick, Johns Hopkins Univ. School of Medicine

7:55 p.m. 7.2 A role for sweet taste receptors (T1R2/T1R3) in renal function and fructose-induced signaling in the kidney
Pablo Ortiz, Henry Ford Health System

8:20 p.m. 7.3 Receptor mediated endocytosis in proximal tubule function
Ora Weisz, Univ. of Pittsburgh School of Medicine

8:45 p.m. 7.4 Renal glucose handling in health and disease: a case for olfactory receptor 1393
Blythe Shepard, Georgetown Univ.
TUESDAY, JUNE 25, 2019

7:00 a.m. – 8:00 a.m. Breakfast

8:00 a.m. – 10:00 a.m. Session 4:
The New Life of the JGA
Pavilion I & II
Chair: Ruisheng Liu, Univ. of South Florida

8:00 a.m. 
8.0 New developments in macula densa cell function and imaging in vivo
Janos Peti-Peterdi, Univ. of Southern California

8:25 a.m. 
8.2 Control of renin release in diabetes
Mariela Mendez, Henry Ford Health System

8:50 a.m. 
8.3 Novel integrative functions of the JG cells
Vladimir Todorov, Christian Hugo, Univ. Hospital Carl Gustav Carus, Technische Univ. Dresden

9:15 a.m. 
8.4 Regeneration of the kidney vasculature after release of ureteral obstruction
Vidy Nagalakshmi, Univ. of Virginia

9:26 a.m. 
8.5 Hypertension, enhanced glomerular capillary pressure and tubuloglomerular feedback (TGF) in obese ALMS1 (Alstrom Syndrome 1) knock out rats
Sumit Monu, Henry Ford Health System

9:37 a.m. 
8.6 Renin-angiotensin responses initiate the early renal hemodynamic responses of healthy kidneys to contralateral uninephrectomy
Satoshi Shimada, Medical College of Wisconsin

9:48 a.m. 
8.7 Major role of Wnt/β-catenin signaling in macula densa cell biology
Urvi Nikhil Shroff, Univ. of Southern California

10:00 a.m. – 10:30 a.m. Coffee Break

10:30 a.m. – 12:30 p.m. Session 5:
Immune System Contributions in Renal Tubular Transport, Hemodynamics and Hypertension
Pavilion I & II
Chair: Michael Hultstrom, Uppsala Univ.

10:30 a.m. 
9.1 New immune mechanisms in hypertension
Hana Itani, American Univ. of Beirut

10:55 a.m. 
9.2 TNF-alpha (TNF) in the regulation of renal ion transport
Nicholas Ferreri, New York Medical College
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>11:20 a.m.</td>
<td>9.3</td>
<td>Immune mechanisms of renal injury in salt-sensitive hypertension</td>
<td>David Mattson, Medical College of Wisconsin</td>
</tr>
<tr>
<td>11:45 a.m.</td>
<td>9.4</td>
<td>The role of κ-opioid receptors in podocyte injury and the exacerbation of kidney damage in salt-induced hypertension</td>
<td>Daria Golosova, Medical College of Wisconsin</td>
</tr>
<tr>
<td>11:56 a.m.</td>
<td>9.5</td>
<td>Sex differences in pretreatment with low dose lipopolysaccharide on IR induced red blood cell congestion in the renal medulla</td>
<td>Sarah Ray, Augusta Univ.</td>
</tr>
<tr>
<td>12:07 p.m.</td>
<td>9.6</td>
<td>Transcriptomic analysis in renal T lymphocytes exposes sodium-independent dietary differences in Dahl SS rats</td>
<td>Justine Abais-Battad, Medical College of Wisconsin</td>
</tr>
<tr>
<td>12:18 a.m.</td>
<td>9.7</td>
<td>Autoimmune mediated changes in renal function precede the development of hypertension in female mice with SLE</td>
<td>Elena Dent, Univ. of Mississippi Medical Center</td>
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<td>Lunch</td>
<td>Ballroom</td>
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<tr>
<td>1:30 p.m. –</td>
<td></td>
<td>Free time</td>
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<tr>
<td>5:00 p.m. –</td>
<td>10.0</td>
<td>Poster Session 2</td>
<td>Tuesday, 5:00 p.m.–6:30 p.m. Pavillon III</td>
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<td>6:30 p.m.</td>
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<tr>
<td>Board #2</td>
<td>10.1</td>
<td>Assessment of ultrastructural changes of podocyte foot processes by scanning ion conductance microscopy (SICM)</td>
<td>Oleg Palygin, Ruslan Bohovyk, Mykhailo Fedoriuk, Denisha Spires, Vladislav Levchenko, Alexander Staruschenko, Medical College of Wisconsin</td>
</tr>
<tr>
<td>5</td>
<td>10.2</td>
<td>Role of cGMP-modulating enzymes for the vascular tone and reactivity of glomerular arterioles</td>
<td>Minze Xu, Inggrid Wennysia, Liang Zhao, Tibor Schomber, Diana Braun, Stefan Golz, Enyin Lai, Nanmei Liu, Rudolf Schubert, Pontus Persson, Andreas Patzak, Bayer AG; Charité – Universitätsmedizin Berlin; Heidelberg Univ.; 455 Hospital of PLA; Zhejiang Univ. School of Medicine</td>
</tr>
<tr>
<td>8</td>
<td>10.3</td>
<td>Proliferation does not contribute to increased renin cell number during homeostatic threats</td>
<td>Omar Guessoum, Maria Sequeira-Lopez, Ariel Gomez, Univ. of Virginia</td>
</tr>
<tr>
<td>11</td>
<td>10.4</td>
<td>Novel neuron-like features of macula densa cells</td>
<td>Georgina Gyarmati, Anne Riquier-Brison, Urvi Schroff, Audrey Izuhara, Janos Peti-Peterdi, Univ. of Southern California</td>
</tr>
</tbody>
</table>
Defining molecular pathways involved in the early compensatory response of healthy kidneys to contralateral uninephrectomy

Allen Cowley, Jr, Satoshi Shimada, Chun Yang, Nadezhda Zheleznova, Theresa Kurth, Mahsa Ranji, Shima Mehrvar, Angela Mathison, Thiago Milech De Assuncao, Raul Urrutia. *Medical College of Wisconsin; Univ. of Wisconsin - Milwaukee*

Soft drink consumption augments the renal vascular response to sympathetic activation

Christopher Chapman, Tigran Grigoryan, Nicole Vargas, Blair Johnson, Zachary Schlader, *Univ. at Buffalo*

Improvement in estimates of GFR by using lean mass as compared to body weight in Indians: pilot study

Anjali Kulkarni, Chittaranjan Yajnik, Lavanya Sampathkumar, *BARC Hospital; BARC Hospital, Mumbai; KEM Hospital, Pune*

Acsm2, a kidney specific gene, is restricted to proximal tubular cells

Hirofumi Watanabe, Robert Paxton, Maria Luisa S. Sequeira-Lopez, R. Ariel Gomez. *Univ. of Virginia School of Medicine*

Role of acid ceramidase in the control of lysosomal TRPML1 channel activity and associated functional integrity in podocytes

Guangbi Li, Hannah Lohner, Dandan Huang, Owais Bhat, Sara Dempsey, Xinxu Yuan, Joseph Ritter, Pin-Lan Li, *Virginia Commonwealth Univ.*

Dietary effects on T cell methylomes and functional inhibition of DNA methyltransferase attenuates salt-sensitive phenotype in Dahl SS rat

John Henry Dasinger, Ammar Alsheikh, Justine Abais-Battad, Xiaoqing Pan, Hayley Lund, Daniel Fehrenbach, Pengyuan Liu, Mingyu Liang, David Mattson. *Medical College of Wisconsin*

Role of the MCP-1/CCR2 axis in the development of Dahl salt-sensitive (SS) hypertension and renal disease


Anti-inflammatory effect of vagus nerve stimulation (VNS) is in part mediated through B1 Lymphocytes

Nataliya Skrypnyk, Peter Lobo, Mark Okusa, *Univ. of Virginia*

Amphiregulin mediated cellular reprogramming modulates inflammation and tissue remodeling following kidney injury

Vikram Sabapathy, Nardos Cheru, Saleh Mohammad, Rajkumar Venkatadri, Rahul Sharma, *National Institute of Health; Univ. of Virginia*
Investigation of the salt-sensitive changes to renal macrophage infiltration and function in the Dahl SS rat
Daniel Fehrenbach, Justine Abais-Battad, John Henry Dasinger, Haley Lund, David Mattson, Medical College of Wisconsin

7:30 p.m. – 9:10 p.m.
Session 6:
The Kidney in Hypertension
Pavilion I & II
Chair: Peter Bie, Univ. of Southern Denmark

7:30 p.m.  NCC and ENaC: facebook friends or linked (in) together?  
Robert Hoover, Emory Univ.

7:55 p.m.  Basolateral Kir4.1/Kir5.1 potassium channels in salt handling and blood pressure control  
Alexander Staruschenko, Medical College of Wisconsin

8:20 p.m.  Afferent arteriolar ROS: protectors or weak links for the kidney in hypertension and CKD?  
Christopher Wilcox, Georgetown Univ.

8:45 p.m.  Regulated dephosphorylation of the kidney sodium chloride cotransporter shapes the blood pressure response to dietary potassium  
Paul Welling, Univ. of Maryland Medical School

WEDNESDAY, JUNE 26, 2019

7:00 a.m. – 8:00 a.m.
Breakfast

8:00 a.m. – 10:00 a.m.
Session 7:
Autacoids and Prostaglandins in Renal Function and Disease
Pavilion I & II
Chair: Michal Schwartzman, New York Medical College

8:00 a.m.  New role of 20-HETE in renal hemodynamics and hypertension  
Victor Garcia, New York Medical College

8:25 a.m.  Autocrine actions of ET-1 and NO on the renal medulla  
Kelly Hyndman, Univ. of Alabama at Birmingham

8:50 a.m.  Function and significance of the nephron prorenin receptor  
Nirupama Ramkumar, Univ. of Utah
9:15 a.m. 12.4 Purinergic P2X receptor and angiotensin AT1 receptor interactions in the regulation of preglomerular renal microcirculation in angiotensin II-dependent hypertension
   Supaporn Kulthinee, Tulane Univ.

9:26 a.m. 12.5 A short chain fatty acid produced by the gut microbiota plays a role in blood pressure regulation and cardiac contractility
   Brian Poll, Johns Hopkins Univ. School of Medicine

9:37 a.m. 12.6 PGE2 is a distal nephron remodeling factor
   Ava Zapf, Univ. of Maryland Baltimore

9:48 a.m. 12.7 Endothelin B receptors are necessary for appropriate renal afferent nerve responsiveness
   Bryan Becker, Univ. of Alabama at Birmingham

10:00 a.m. –
10:30 a.m.
   Coffee Break
   Pavilion Foyer

10:30 a.m. – 13.0 Session 8:
12:30 p.m.
   Polycystic Kidney Disease: Biology of Cystic Kidney Disorders
   Pavilion I & II
   Chair: Darwin Bell, Univ. of Alabama at Birmingham

10:30 a.m. 13.1 Insight into the pathogenesis of cystic kidney disorders from genetic studies
   Peter Harris, Mayo Clinic

10:55 a.m. 13.2 Interferon regulatory factor 5 in kidney macrophages promotes cyst growth in PKD
   Takamitsu Saigusa, Univ. of Alabama at Birmingham

11:20 a.m. 13.3 Role of purinergic receptors and ENaC in cyst growth in PKD
   Tengis Pavlov, Henry Ford Health System

11:45 a.m. 13.4 Novel PC2 regulation of ezrin in renal epithelia reveals insight into ADPKD cystogenesis
   Eryn E. Dixon, Univ. of Maryland School of Medicine

11:56 a.m. 13.5 Impaired betaine dependent remethylation is associated with hyperhomocysteinemia and vascular abnormalities in early autosomal dominant polycystic kidney disease (ADPKD)
   Ali Tug, Mayo Clinic

12:07 p.m. 13.6 The role of notch signaling in polycystic kidney disease
   Brian Belyea, Univ. of Virginia

12:18 p.m. –
12:45 p.m.
   Business Meeting
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>12:45 p.m.</td>
<td>Lunch</td>
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<td>1:45 p.m.</td>
<td>Ballroom</td>
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<tr>
<td>1:45 p.m. –</td>
<td>Free time</td>
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<tr>
<td>5:00 p.m.</td>
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<tr>
<td>6:30 p.m.</td>
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<tr>
<td>5:00 p.m. –</td>
<td><strong>14.0</strong> Poster Session 3</td>
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<td>Pavilion III</td>
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<td><strong>Board #</strong></td>
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<tr>
<td>3</td>
<td><strong>14.1</strong> Withdrawal</td>
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<td>6</td>
<td><strong>14.2</strong> Novel insights into the renal microstructure of the acute kidney injury to chronic kidney disease continuum using contrast enhanced MRI</td>
</tr>
<tr>
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<td>Jennifer Charlton, Kimberly deRonde, Jillian Hughes, Yanzhe Xu, Teresa Wu, Kevin Bennett, Arizona State Univ.; Univ. of Virginia; Washington Univ. at St. Louis</td>
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<tr>
<td>9</td>
<td><strong>14.3</strong> Role of kinin B1 receptor in hypertensive kidney disease</td>
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<td>Debargha Basuli, Srinivas Sriramula, East Carolina Univ.</td>
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<tr>
<td>12</td>
<td><strong>14.4</strong> Reno-protective effect of central leptin receptor blockade in rat model of estrogen deficiency</td>
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<td>Francesca Di Sole, Jonathan Van Erdewyk, Bilal Khan, Victor Babich, Maria Barnes, Des Moines Univ.; Mercy College of Health Sciences</td>
</tr>
<tr>
<td>15</td>
<td><strong>14.5</strong> TolvaThirst: is thirst triggered to adapt to an acute increase in plasma sodium concentration (P[Na]) in chronically hyponatremic patients?</td>
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<td>Jean-Philippe Bertocchio, Come Bureau, Raphael Cohen, Stéphanie Baron, Pascal Houillier, Anne Blanchard, European Georges Pompidou Hospital</td>
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<tr>
<td>18</td>
<td><strong>14.6</strong> Panx1 deficiency mediated increase in intracellular ATP pool maintains mitochondrial function and enhances cell survival during kidney ischemia-reperfusion injury in mice</td>
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<td></td>
<td>Nabin Poudel, Jacub Jankowski, Sho Morioka, Colleen Schinderlee, Shuqiu Zheng, Diane Rosin, Mark Okusa, Univ. of Virginia</td>
</tr>
<tr>
<td>21</td>
<td><strong>14.7</strong> Compartment specific roles for peroxidasin after kidney injury</td>
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<td>Selene Colon, Haiyan Luan, Yan Liu, Cameron Meyer, Leslie Gewin, Gautam Bhave, Jiamusi Univ.; Vanderbilt Univ. Medical Center</td>
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<tr>
<td>24</td>
<td><strong>14.8</strong> Withdrawn</td>
</tr>
<tr>
<td>27</td>
<td><strong>14.9</strong> Bioenergetic evolution links kidney development, CKD progression and aging</td>
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<tr>
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<td>Robert Chevalier, Univ. of Virginia</td>
</tr>
</tbody>
</table>
Dual binding affinities for megalin and cubilin receptors accommodate wide variations in filtered albumin load
Qidong Ren, Youssef Rbaibi, Ossama Kashlan, Ora A. Weisz, Tsinghua Univ.; Univ. of Pittsburgh

Treg-manipulation reveal unique resistance of female mice to aristolochic acid induced nephropathy
Murat Dogan, Gilbert Kinsey, Apoorv Sharma, Joyce Chenga, Airi Price, Anthony Shero, Mana Yang, Brian K. Stevens, Rahul Sharma, Univ. of Virginia

The hybrid cytokine IL23 alleviates lupus glomerulonephritis by targeting mitochondrial biogenesis and canonical Wnt signaling
Rajkumar Venkatadri, Vikram Sabapathy, Murat Dogan, Saleh Mohammad, Shu Man Fu, Rahul Sharma, Univ. of Virginia

Hyperhomocysteinemia accelerates acute kidney injury to chronic kidney disease progression by downregulating heme oxygenase-1 expression
Jing Nie, Shuang Li, Bingbing Qiu, Fengxin Zhu, Nanfang Hospital, Southern Medical Univ.

Dilating renal medullary microvessels by the NO-sGC-cGMP pathway for renoprotection
Pontus B. Persson, Andreas Patzak, Thoralf Niendorf, Erdmann Seeliger, Charité – Univ. Berlin; Max-Delbrück-Center for Molecular Medicine

Development of a glomerular specific targeted nanoparticles for lupus nephritis
Jin Wei, Ryan Grabau, Jie Zhang, Lei Wang, Samuel Wickline, Hua Pan, Ruisheng Liu, Univ. of South Florida

Plasma soluble urokinase-type plasminogen activator receptor (suPAR): An early indicator of chronic kidney disease in sickle cell disease
Nowah Afangbedji, a.m.manuel Taye, Nathan Smith, Xiomei Niu, James G. Taylor, Sergei Nekhai, Marina Jerebtsova, Howard Univ.
8:20 p.m. 15.3 P2 receptor-mediated regulation of collecting duct function
James Stockand, Univ. of Texas Health Science Center San Antonio

8:45 p.m. 15.4 P2 receptors in renal tubular transport
Jens Leipziger, Aarhus Univ.

THURSDAY, JUNE 27, 2019

7:00 a.m. – Breakfast
8:00 a.m. Ballroom

8:00 a.m. – 16.0 Session 10:
10:00 a.m. Salt, Genetics and Epigenetics in Kidney Function
Pavilion I & II
Chair: Timo Rieg, Univ. of South Florida

8:00 a.m. 16.1 Genome-wide association analyses of kidney traits in selected population
Nora Franceschini, Univ. of North Carolina at Chapel Hill

8:25 a.m. 16.2 MicroRNA mediators of renal injury and chronic reno-cardiac syndrome
Alison Kriegel, Medical College of Wisconsin

8:50 a.m. 16.3 New concepts in the epigenetics of renin cell differentiation
R. Ariel Gomez, Univ. of Virginia

9:15 a.m. 16.4 Altered megalin trafficking in dent disease
Katherine Shipman, Univ. of Pittsburgh School of Medicine

9:26 a.m. 16.5 HDAC1 disrupts nitric oxide signaling in the renal microvasculature
Luke Dunaway, Univ. of Alabama at Birmingham

9:37 a.m. 16.6 The megalin receptor mediates angiotensin II uptake in the renal proximal tubule and regulates blood pressure
Kathrin Weyer, Aarhus Univ.

9:48 a.m. 16.7 Aldosterone drives renal Na+ reabsorption and hypertension in females in a sex-specific manner
Mykola Mamenko, Augusta Univ.

10:00 a.m. – Coffee Break
10:30 a.m. Pavilion Foyer

17.0 Session 11:
Causes and Consequences of Acute Kidney Injury
Pavilion I & II
Chair: Pontus Persson, Institute fur Vegetative Physiologie

10:30 a.m. 17.1 Epithelial beta-catenin signaling in the AKI to CKD transition
Leslie Gewin, Vanderbilt Univ. Medical Center
10:55 a.m. 17.2 Neural circuits controlling inflammation in acute kidney injury
Mark Okusa, Univ. of Virginia

11:20 a.m. 17.3 Role of sphingosine-1-phosphate signaling in renal ischemia-reperfusion
Zhengrong Guan, Univ. of Alabama at Birmingham

11:45 a.m. 17.4 High molecular weight hyaluronan attenuates tubulointerstitial fibrosis
Xinyi Wang, Baylor College of Medicine

11:56 a.m. 17.5 Glomerular mitochondria function in salt-sensitive hypertension
Daria Ilatovskaya, Medical Univ. of South Carolina

12:07 p.m. 17.6 Increased renal lymphatic density improves inflammation following AKI
Joseph Rutkowski, Texas A&M College of Medicine

12:18 p.m. 17.7 Acute kidney injury sensitizes the brain vasculature to angiotensin II constriction via FGFBP1
Enyin Lai, Georgetown Univ.

12:30 p.m. 18.0 Closing Remarks
Edward Inscho, Univ. of Alabama

12:35 p.m. Box lunches available upon departure
Pavilion Foyer