PRELIMINARY AGENDA

WEDNESDAY, OCTOBER 2, 2019

6:00 p.m. – 7:00 p.m.  Dinner

7:30 p.m. – 8:30 p.m.  Keynote Lecture
  Chair: Daniela Rotin, Univ. of Toronto
  Joseph Bonventre, Harvard Univ.
  Kidney Organoids

8:30 p.m. – 10:00 p.m.  Welcome Reception

THURSDAY, OCTOBER 3, 2019

7:00 a.m. - 8:00 a.m.  Breakfast

8:00 a.m. - 10:00 a.m.  Symposium 1A: Aldosterone and Mineralocorticoid Receptors in the Kidney and Hypertension
  Chairs: David Calhoun, Univ. of Alabama Birmingham, and Celso Gomez Sanchez, Univ. of Mississippi

8:00 a.m. – 8:30 a.m.  Toshiro Fujita, Univ. of Tokyo
  MR activation by Rac1 in kidney disease

8:30 a.m. – 9:00 a.m.  Anand Vaidya, Brigham and Women’s Hospital
  The Expanding Spectrum of Primary Aldosteronism

9:00 a.m. – 9:30 a.m.  Peter Fuller, Hudson Institute of Medical Research
  Structural Determinants of Activation of the Mineralocorticoid Receptor: an Evolutionary Perspective

  2 talks chosen from abstracts

10:00 a.m. - 10:30 a.m.  Coffee Break

10:30 a.m. - 12:00 p.m.  Symposium 1B: Metabolic and Sex Differences in Aldosterone Responses
  Chairs: Massi Caprio, IRCCS, and James Mathew Luther, Vanderbilt Univ.

10:30 a.m. – 11:00 a.m.  Jose Romero, Brigham and Women’s Hospital
  Biological Sex-Specific Differences in the Aldosterone Responses to Angiotensin II in Humans and Rodents
11:00 a.m. – 11:30 a.m. Eric Belin de Chantemèle, Augusta Univ.
The Leptin-Aldosterone-Mineralocorticoid Receptor axis: a major contributor to cardiovascular disease in obese females

2 talks chosen from abstracts

12:00 p.m. - 1:00 p.m. Lunch

1:00 p.m. - 3:00 p.m. Symposium 2A: Structure Function of ENaC and Related Transporters
Chairs: Peter Snyder, Univ. of Iowa, and Bernard Rossier, Univ. of Lausanne

1:00 p.m. – 1:30 p.m. Isabelle Baconguis, Oregon Health Science Univ.
ENaC structure by cryo-electron microscopy

1:30 p.m. – 2:00 p.m. Ossama Kashlan, Univ. of Pittsburgh
ENaC regulation by biliary factors in urine

3 talks chosen from abstracts

3:00 p.m. - 3:30 p.m. Coffee Break

3:30 p.m. - 5:00 p.m. Symposium 2B: ENaC Function and Regulation in Tissues
Chairs: Larry Palmer, Cornell Univ., and Edith Hummler, Lausanne Univ.

3:30 p.m. – 4:00 p.m. Tom Kleyman, Univ. of Pittsburgh
ENaC regulation by the extracellular environment

4:00 p.m. – 4:30 p.m. Christoph Korbmacher, Univ. of Erlangen
ENaC regulation by aldosterone and proteases

2 talks chosen from abstracts

6:00 p.m. – 7:00 p.m. Dinner

7:00 p.m. – 9:30 p.m. Poster Session 1

Friday, October 4, 2019

7:00 a.m. - 8:00 a.m. Breakfast

8:00 a.m.-10:00 a.m. Symposium 3A: Signaling and Regulation of ENaC and Other Epithelial Channels/Transporters I
Chairs: Doug Eaton, Emory Univ., and Alicia McDonough, USC

8:00 a.m. – 8:30 a.m. David Pearce, UCSF
ENaC Regulation by the mTORC2/SGK1 pathway

8:30 a.m. – 9:00 a.m. Michael Butterworth, Univ. of Pittsburgh
Role of microRNAs in aldosterone signaling and ENaC regulation
9:00 a.m. – 9:30 a.m. Kenneth Hallows, USC
Metabolic regulation of ENaC by AMPK and β1Pix
2 talks chosen from abstracts

10:00 a.m. - 10:30 a.m. Coffee Break

10:30 a.m. - 12:00 p.m. Symposium 3B: Signaling and Regulation of ENaC and Other Epithelial Channels/Transporters II
Chairs: Alexander Staruschenko, Medical College of Wisconsin, and Jim Stockand, Univ. of Texas, San Antonio

10:30 a.m. – 11:00 a.m. Arohan Subramanya, Univ. of Pittsburgh
WNK kinases and cell volume regulation

11:00 a.m. – 11:30 a.m. Robert Tarran, Univ. of North Carolina
SPLUNC1 and new clinical trials for CF treatment
2 talks chosen from abstracts

12:00 p.m. - 1:00 p.m. Lunch

1:00 p.m.-3:00 p.m. Symposium 4A: ENaC Biogenesis and Trafficking
Chairs: Daniela Rotin, Univ. of Toronto

1:00 p.m. – 1:30 p.m. Vivek Bhalla, Stanford
Metabolic syndrome and ENaC trafficking

1:30 p.m. – 2:00 p.m. Olivier Staub, Univ. of Lausanne
Regulation of renal sodium transport by ubiquitination

2:00 p.m. – 2:30 p.m. Theresa Buck, Univ. of Pittsburgh
ENaC Processing at the ER
2 talks chosen from abstracts

3:00 p.m. - 5:00 p.m. APS Career Development Workshop/Hike
The purpose of the workshop/hike is to provide career advice from senior investigators to junior faculty, post-doctoral fellows, and students on areas including grant writing, academic promotion, manuscript writing, mentorship, and other faculty activities.

6:00 p.m. - 7:00 p.m. Dinner

7:00 p.m. - 9:30 p.m. Poster Session 2

Saturday, October 5, 2019

7:00 a.m. - 8:00 a.m. Breakfast

8:00 a.m. -10:00 a.m. Symposium 5A: MR in the Vasculature
Chairs: Frederic Jaisser, INSERM, and Iris Jaffe, Tufts Medical Center
8:00 a.m. – 8:30 a.m.  
**Anna Davel**, Univ. of Campinas  
Sex-specific mechanisms of resistance vessel endothelial dysfunction induced by cardiometabolic risk factors

8:30 a.m. – 9:00 a.m.  
**Jennifer Dupont**, Tufts Medical Center  
Sex differences in the role of smooth muscle cell MR in vascular aging

3 talks chosen from abstracts

10:00 a.m. - 10:30 a.m.  
Coffee Break

10:30 a.m. - 12:00 p.m.  
**Symposium 5B: MR in the Heart**  
**Chairs:** Gail Adler, Brigham and Women’s Hospital, and **Shawn Bender**, Univ. of Missouri

10:30 a.m. – 11:00 a.m.  
**Guanghong Jia**, Univ. of Missouri  
Enhanced endothelium epithelial sodium channel signaling prompts left ventricular diastolic dysfunction in obese female mice

11:00 a.m. – 11:30 a.m.  
**TBA**  
Deoxycorticosterone/salt-mediated cardiac inflammation and fibrosis are dependent on functional CLOCK signaling

2 talks chosen from abstracts

12:00 p.m. - 1:00 p.m.  
Lunch

1:30 p.m. - 2:30 p.m.  
**Clinical Plenary Lecture**  
**Chair:** Maria-Christina Zennaro, Paris Cardiovascular Research Center

**Bertram Pitt**, Univ. of Michigan  
The role of non-steroidal MR antagonists and new potassium binders for the treatment of cardiovascular disease

2:30 p.m. - 6:00 p.m.  
Free time

6:00 p.m. - 9:00 p.m.  
**APS Banquet and Awards Presentation**

**Sunday, October 6, 2019**

7:00 a.m. - 8:00 a.m.  
Breakfast

8:00 a.m. - 10:00 a.m.  
**Symposium 6A: Normal and Pathogenic Regulation of Aldosterone Biosynthesis**  
**Chairs:** Eleanor Davies, Univ. of Glasgow, and **Jun Yang**, Monash Univ.

8:00 a.m. – 8:30 a.m.  
**William Rainey**, Univ. of Michigan  
Aging related autonomous aldosteronism

8:30 a.m. – 9:00 a.m.  
**Fabio Fernandes-Rosa**, Paris Cardiovascular Research Center  
A gain of function mutation in CLCN2 chloride channel gene causes primary aldosteronism
3 talks chosen from abstracts

10:00 a.m. -10:30 a.m.  Coffee Break

10:30 a.m. - 12:00 p.m.  Symposium 6B: Integrated Regulation of Renal Ion Transport  
Chairs: David Ellison, Oregon Health Science Univ., and Johannes Loffing, Univ. of Zurich

10:30 a.m. – 11:00 a.m.  My Helm, Univ. of Utah  
ENaC regulation by oxidized glutathione

11:00 a.m. – 11:30 a.m.  James McCormick, Oregon Health Science Univ.  
Differential regulation of renal ion transport and blood pressure by SPAK isoforms

11:30 a.m. – 12:00 p.m.  Aylin Rodan, Univ. of Utah  
WNK regulation of ion transport in the Malpighian tubule

1 talk chosen from abstract

Conclusion