Proposed Program
Fall 2019: 9th annual International Conference of Aldosterone and ENaC in health and disease: the kidney and beyond

Overall: Keynote and Plenary lectures, 6 Half day symposia, 2 poster sessions
12 Sessions: each with 2 Chairs, 2 invited lectures (15+10 minutes questions) + 2-3 presentation chosen from abstracts (junior investigators and trainees, 12+8 minutes questions).
* indicates junior investigator (Instructor or Assistant Professor)
^ indicates clinical or translational topic

Day 1
6:00-7:00 PM: Dinner
7:30-8:30 PM: Keynote Lecture: Evening (TBD based on state-of-the-art basic science in 2019)
Example: Melissa Little (Professor, University of Queensland, Australia), Kidney Organoids (Takasatu et al, Nature, Oct 2015).
8:30-10:00 PM: Welcome Reception

Day 2
7:00-8:00 AM: Breakfast
8:00 AM- 12:00 noon: Symposium I
8:00-10:00 AM: Mineralocorticoid Receptors in the Kidney and Hypertension
Chairs: David Calhoun (University of Alabama, USA); Gordon Williams (Brigham and Women’s Hospital, Boston, USA)
Invited Speakers:
   Toshiro Fujita (University of Tokyo, Japan)
   “MR activation by Rac1 in kidney disease”
   Frederic Jaisser, (INSERM, Paris, France)
   ^“MR antagonists for renal protection after kidney transplant”
   + 3 chosen from abstracts
10:00-10:30 AM: coffee break
10:30-12:00 noon: MR Genomic and Non-Genomic Function
Chairs: Celso Gomez Sanchez (University of Mississippi, USA); *Jun Yang (Monash University, Melbourne, Australia)
Invited Speakers:
   Jerome Fagart (Université Paris-Sud, Paris, France)
   “Finerenone Impedes Aldosterone-dependent Nuclear Import of the Mineralocorticoid Receptor and Prevents Genomic Recruitment of Steroid Receptor Coactivator-1”
   Peter Fuller (MIMR- Prince Henry’s Institute of Medical Research, Victoria, Australia)
“Aldosterone-Mediated Renal Sodium Transport Requires Intact Mineralocorticoid Receptor DNA-Binding in the Mouse”
+ 2 chosen from abstracts

12:00 noon-1:00 PM: Lunch

1:00 - 5:00 PM: **Symposium 2:**

1:00-3:00 PM: **Structure function of ENaC and related transporters-I**

Chairs: Peter Snyder (University of Iowa, USA); *Michelle Gumz (U. of Florida, USA)
Invited Speakers:
Christoph Korbmacher (University of Erlangen, Germany)
“Protease regulation of ENaC”
*Ossama Kashlan (University of Pittsburgh, USA)
“Structural modeling of ENaC gating”
+ 3 chosen from abstracts

3:00-3:30 AM: coffee break

3:30-5:00 PM: **Structure function of ENaC and related transporters-II**

Chairs: Laurent Schild (Switzerland); Alicia McDonough (USC, USA)
Invited Speakers:
Tom Kleyman (University of Pittsburgh, USA)
“ENaC regulation by the extracellular environment”
*Mykola Mamenko (University of Texas, Houston, USA)
“Renal store-operated calcium channels”
+ 2 chosen from abstracts

6:00-7:00 PM DINNER

7:00-9:30 PM: **Poster Session 1**

**Day 3**

7:00-8:00 AM: Breakfast

8:00 AM-12:00 noon: **Symposium 3:**

8:00-10:00 AM: **Signaling and regulation of ENaC and other epithelial channels/transporters-I**

Chairs: Doug Eaton (Emory, USA); Vivek Bhalla (Stanford, USA)
Invited Speakers:
*Catie Gleason (UCSF, USA)
“Regulation of ENaC in the Kidney by the mTORC2/SGK1 pathway”
*Michael Butterworth (USA)
“Role of microRNAs in aldosterone signaling”
+ 3 chosen from abstracts

10:00-10:30 AM: coffee break
10:30-12:00 noon: **Signaling and regulation of ENaC and other epithelial channels/transporters-II**

Chairs: Alexander Staruschenko (Medical College of Wisconsin, USA); David Pearce (UCSF, USA)

Invited Speakers:

* Arohan Subramanya (University of Pittsburgh, USA)  
  “Aldosterone regulation of NCC”

* Michelle Gumz (University of Florida, USA)  
  “Clock gene regulation of ENaC”

+ 2 chosen from abstracts

12:00 noon- 1:00 PM LUNCH

1:30-2:30 PM: **APS Career Development Workshop**: Panel discussion including NIH officials, senior investigators, journal editors... The purpose of the workshop is to provide career advice to junior faculty, post-doctoral fellows, and students on areas including grant writing, academic promotion, manuscript writing, mentorship, and other faculty activities.

2:30-6:00 Free Time

6:00-7:00 PM DINNER

7:00-9:30 PM: **Poster Session 2**

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**Day 4**

7:00-8:00 AM: Breakfast

8:00 AM- 12:00 noon: **Symposium 4**: MR in Cardiovascular Function and Disease

8:00-10:00 AM: MR in the Heart

Chairs: Morag Young (Monash University, Melbourne, Australia); *Luminita Pojoga (Assistant Professor, Brigham and Women’s Hospital, Boston, USA)

Invited Speakers:

Antoine Ouvrard-Pascaud (University of Rouen, France)  
“Vascular Smooth Muscle Mineralocorticoid Receptor Contributes to Coronary and Left Ventricular Dysfunction after Myocardial Infarction”

* Shawn Bender (Assistant Professor, University of Missouri, USA)  
  “The Role of MR in Coronary Dysfunction in Obesity”

+ 3 chosen from abstracts

10:00-10:30 AM: coffee break

10:30-12:00 noon: MR in the Vasculature

Chairs: Gail Adler (Brigham and Women’s Hospital, Boston, USA); *Jennifer Dupont (Tufts Medical Center, Boston, USA)

Invited Speakers:

* Lin YH (National Taiwan University Hospital and College of Medicine, Taipei, Taiwan)
“Impaired Vascular Smooth Muscle Function and Cardiac diastolic function in patients with primary aldosteronism: From Clinical to Bench Research”

Iris Jaffe (Tufts Medical Center, Boston, USA)
“MR in vascular aging and epigenetics”

+ 2 chosen from abstracts

12:00 noon- 1:00 PM LUNCH

1:30-2:30 PM: **Clinical Plenary Lecture**
Chair: Murray Epstein (University of Miami, USA)
Invited Speaker: Bertram Pitt

“Novel Non-steroidal MR Antagonists and Potassium Binders for Treatment of Hypertension and Heart Failure” (these drugs are currently in phase 3 trials so we anticipate this being an exciting new area by 2019)

2:30-6:00 PM  Free Time

6:00-9:00 PM: **The APS Dinner Banquet and Awards Presentation**

**Day 5**

7:00-8:00 AM: Breakfast

8:00 AM- 12:00 noon: **Symposium 5:**

8:00-10:00 AM: **Aldosterone and MR in Metabolic Function**

Chairs: Jim Sowers (University of Missouri, USA); *James Mathew Luther (Assistant Professor, Vanderbilt, Nashville, USA)

Invited Speakers:
Massimiliano Caprio (IRCCS San Raffaele Pisana, Rome, Italy)
“MR in adipose and obesity”

*Eric Belin de Chantemèle (Assistant Professor, Augusta University, Georgia, USA)
“Adipocyte-Derived Hormone Leptin Is a Direct Regulator of Aldosterone Secretion, Which Promotes Endothelial Dysfunction and Cardiac Fibrosis.”

+ 3 chosen from abstracts

10:00-10:30 AM: coffee break

10:30-12:00 noon: **Normal and pathogenic regulation aldosterone biosynthesis:**

Chairs: William Rainey (University of Michigan, USA); *Sheerazed Boulkroun (Paris Cardiovascular Research Center, Paris, France)

Invited Speakers:
Maria-Christina Zennaro (Paris Cardiovascular Research Center, Paris, France)
“Somatic mutations in aldosterone-producing adenoma”

Eleanor Davies (University of Glasgow, UK)
“MicroRNA as regulators of aldosteronism production in the human adrenal cortex”

+ 2 chosen from abstracts
1:00 noon- 1:00 PM LUNCH

1:00 - 5:00 PM: **Symposium 6:**

1:00-3:00 PM: **ENaC biogenesis and trafficking**

   Chairs: Daniela Rotin (University of Toronto, Canada); Rebecca Hughey (University of Pittsburgh, USA)

   Invited Speakers:

   * Vivek Bhalla (Stanford, USA)
     “Metabolic syndrome and ENaC trafficking”

   * Olivier Staub (University of Lausanne, Switzerland)
     “Regulation of renal sodium transport by ubiquitination”

   + 3 chosen from abstracts

3:00-3:30 AM: coffee break

3:30-5:00 PM: **Integrated regulation of renal ion transport**

   Chairs: David Ellison (Oregon Health Science University, USA); Johannes Loffing (University of Zurich, Switzerland)

   Invited Speakers:

   * Alan Pao (Stanford, USA)
     “Micro RNA regulation of SGK1”

   * James McCormick (Oregon Health Science University, USA)
     “Differential regulation of renal ion transport and blood pressure by SPAK isoforms”

   + 2 chosen from abstracts