EB 2018 RENAL SECTION HIGHLIGHTS

April 21 - 25, 2018

April 22, 2018
Renal Section Young Investigator Award
Featured topic
Dr. Jennifer Pluznick
8:30-10:00 AM, 28A

Posters & Professors
5:30-7:30 pm
San Diego Marriott Marquis & Marina
Marina Ballroom Salon F

Physiologists in Industry Committee (PIC) Mixer
Sunday, April 22, 6:45 PM
Marriott Oceanside Room

April 23, 2018
PIC Symposium:
Biosensors Advancing Health & Disease Research
1:30 - 3:00 PM, 26

Carl Gottschalk Lecture
Dr. Lisa Satlin
3:30-4:30 pm, R24

Renal Section Banquet
6:00 – 9:00 pm
See JPC pages 2-3 for more information and highlights!

Message from the Renal Section Chair – John Imig

EB2018 is fast approaching! The APS Renal program put together by the Renal Section Program Committee is outstanding. The program includes 1) symposia on ENaC proteins and mechanosensors in endothelial and vascular smooth muscle cells, new concepts in juxtaglomerular apparatus physiology and structure function of renal epithelial cilia; 2) Featured Topics on renal physiology and disease as well as the Young Investigator Featured Topic session on novel roles for renal GPCRs. The Renal Section will honor three major award winners: René Bindels is the 2018 Berliner awardee, Lisa Satlin is the 2018 Gottschalk Distinguished Lecturer, and Jennifer Pluznick is the 2018 Renal Section Young Investigator awardee.

A major highlight for the APS Renal Section is the Posters and Professors session that will be held Sunday, 5:30 - 7:30 PM, in the Marina Ballroom, Salon F at the San Diego Marriott Marquis & Marina and will feature 20 trainee posters plus drinks and snacks. Malgorzata (Gosia) Kasztan (Chair) and the Trainee Advisory Committee members have made a tremendous effort to enhance interactions with the trainees during this session. Do not miss this major APS Renal Section event.

The APS Renal Section Banquet promises to be a grand celebration as we will be cruising and dining aboard the Adventure Hornblower. We sell out the Renal Dinner every year, so be sure to purchase tickets ASAP; as of April 4 there are 20 Renal tickets remaining. Ticket services begin Saturday, April 21 at 8:00 AM and daily through Monday, April 23 from 7:30 AM until 5:00 PM at the on-site EB APS office, located in the La Jolla/La Mesa Room, San Diego Marriott Marquis and Marina.

A huge thank you to everyone that supported the Renal Section last year! Your generosity to APS Renal Section Endowment drive spearheaded by the Past Renal Section Chair, Don Kohan, and outgoing Renal Section Treasurer, Michelle Gumz will help to ensure the long term financial wellbeing for the section. We continue to very much need your support for Renal Section activities. I encourage you to donate – the link is below with a screenshot of the Renal Section website at left: http://www.the-aps.org/mm/hp/Audiences/Sections/Renal.aspx. You can designate your contribution to go to either the Endowment (your contributions are matched by APS) or the General Fund (money can be immediately used to support any Renal Section ventures).

I look forward to seeing you all in San Diego!
JOINT PROGRAMMING COMMITTEE

Edward Inscho, Chair
David Ellison, Co-Chair
Anita Layton, Incoming JPC Rep

EB2018 is here and we are already busy planning for EB2019, so we ask you to think, propose and generate new and exciting symposia to include in future EB meetings. We will work with you to try to get it programmed. Please contact me (einscho@uab.edu) or David Ellison (ellisond@ohsu.edu) ASAP with ideas for EB2019 programming and we will send you the simple forms required for submitting a session topic and to discuss potential topics with you.

I want to take a minute to thank Pablo Ortiz (Henry Ford Hospital) for his effort and time. He will be stepping down as the senior JPC rep for the Renal Section. Pablo has done an outstanding job over the last 4 years, organizing renal and cross-sectional symposia for our Section. He is always a very vocal advocate for our section and has been a very good mentor to me and others. I will assume the role of “senior” rep to JPC for the next 2 years and would like to welcome David Ellison (Oregon Health Sciences University) as the second representative for our section. Anita Layton (Duke University /University of Waterloo) was elected as the incoming JPC representative.

We have a very exciting program planned for this year which includes 3 symposia, 2 featured topics, and 2 award lectures!

As you can see below, most of our section’s activities are in nearby rooms. The 2 featured topics are composed of all the abstracts submitted to the Renal Section that were judged most meritorious after stringent review. Thus, they feature some of the most exciting science being done by Renal Section members. We are also honoring the 2018 Young Investigator awardee, Jennifer Pluznick (Johns Hopkins), and the Carl Gottschalk Lecturer for 2018, Lisa M. Satlin (Mount Sinai School of Medicine), who will be presenting lectures on Sunday (8:20 AM) and Monday (3:30 PM), respectively.

See you soon in San Diego!

Renal Section Specific EB2018 Program

Sunday, April 22, 2018

8:30 AM - 10:00 AM (Room 28A)
- **Renal Section Young Investigator Award Featured Topic**
  Chair: Jennifer Pluznick

1:30 PM - 3:00 PM (Room 25A)
- **ENaC Proteins as Mechanosensors in Endothelial and Vascular Smooth Muscle Cells**
  Chair: Heather Drummond — Co-Chair: Zoe Ashley

ENaC: An evolutionary model of mechano-electrical coupling. **Thomas Kleyman**, Medicine, University of Pittsburgh

Mechanotransduction in renal VSMCs is mediated by coupling of ENaC and Trp signaling. **Heather Drummond**, Physiology, University of Mississippi Medical Center

How do ENaCs sense mechanical force? Or Extracellular Na⁺ regulates ENaC function in blood vessels. **Shujie Shi**, Medicine, University of Pittsburgh

Shear force sensing of ENaC in endothelial cells requires N-glycans and the extracellular matrix. **Martin Fronius**, Physiology, University of Otago
Monday, April 23, 2018

8:30 AM - 10:00 AM (Room 25B)
- **New Concepts in JGA Physiology**
  Chair: Janos Peti-Peterdi — Co-Chair: Charlotte Buckley
  SGLT2 inhibitors and glomerular hemodynamics. **Volker Vallon**, Medicine, University of California in San Diego
  New role of macula densa cells in tissue remodeling. **Georgina Gyarmati**, Medicine, University of Southern California
  Imaging and manipulation of renin cells. **Charlotte Buckley**, University of Edinburgh
  Non-canonical Functions of Renin Cells: Renal Physiology, Regeneration and Beyond. **Vladimir Todorov**, Dresden

1:30 PM - 3:00 PM (Room 25B)
- **Advances in Renal Physiology I**
  Chair: Pablo Ortiz

3:30 PM - 4:30 PM (R24)
- **Carl Gottschalk Distinguished Lectureship of the APS Renal Section**
  Lisa Satlin (Icahn School of Medicine)

Tuesday, April 24, 2018

8:30 AM - 10:00 AM (25A)
- **Advances in Renal Physiology II**
  Chair: Edward Inscho

1:30 PM - 3:00 PM (TBD)
- **Structure and Function of Renal Epithelial Cilia**
  Chair: Darwin Bell — Co-Chair: Daria Ilatovskaya
  Dietary interventions in polycystic kidney disease: taking advantage of metabolic defects for therapy. **Thomas Weimbs**, Molecular, Cellular and Developmental Biology UC Santa Barbara
  Mechansosensitive differentiation of proximal tubule cells. **Ora A. Weisz**, Medicine, University of Pittsburgh
  Unilateral nephrectomy activates kidney immune cells and accelerates cyst growth in polycystic kidney disease. **Takamitsu Saigusa**, Medicine, University of Alabama at Birmingham

**Renal Section Poster Sessions**
- 1285-APS Renal Section Young Investigator Award Featured Topic (Pluznick)
- 1290-APS Acute kidney injury
- 1291-APS Cilia in renal function
- 1292-APS Diabetic renal disease
- 1293-APS Hormone and autacoid effects on the kidney
- 1294-APS Immune cells and inflammation impact on kidney function and hypertension
- 1295-APS Kidney in hypertension
- 1296-APS Nutrition, exercise and metabolic syndrome in renal function
- 1298-APS Omics and Systems Biology of Renal Function and Disease
- 1299-APS Oxidative stress and hypoxia in the kidney
- 1300-APS Renal hemodynamics, glomerular filtration, and the renal vasculature
- 1301-APS Renal ion transport, transporter regulation, and trafficking
- 1302-APS Renal pathology, toxicology
- 1303-APS Renal Translational Physiology
- 1304-APS Renal water transport, urea transport, and countercurrent mechanisms
- 1305-APS Sex differences in renal function and disease
The APS Renal Section Awards Committee received high numbers of applications in every category. The abstracts and applications were of very high quality and competition was extremely strong. All awardees were carefully selected from a highly competitive pool of meritorious applicants, so if you were unsuccessful this year please consider an application for the APS Renal Section awards next year. Finalists for the 2018 Renal Section Pre- and Postdoctoral Awards will present their work in a poster format and be judged at the Renal Section Posters and Professors Event at the Experimental Biology meeting (April 22nd 2018, 5:30 PM - 7:30 PM, at the San Diego Marriott Marquis & Marina – Marina Ballroom Salon F). Everyone is welcome to attend this session not only to assess the quality of selected posters, but also to interact with your peers, create new contacts, relax after the first day of the meeting etc. Thank you very much to all participants in this year’s competition, keep up the excellent research and make sure to submit again next year.

Finalists for the 2018 Renal Section Predoctoral Excellence in Research Award (in alphabetical order) are: Alissa Frame (Boston University); Josselin Nespol (University of California, San Diego); Xiao-Tong Su (New York Medical College); Joshua Uhlorn (University of Arizona); and Bangchen Wang (University of Nebraska). Finalists for the 2018 Renal Section Postdoctoral Excellence in Research Award are: Ryan Cornelius (Oregon Health and Science University); Yang Gao (University of Utah); Jose Angel Garcia-Pedraza (Henry Ford Hospital); Joanna Martins (Institute of Anatomy, Zurich, Switzerland); and Turgay Saritas (Oregon Health and Science University / University Hospital, Aachen, Germany). Winners in these categories will be announced at the Renal Section Banquet on Monday, April 23rd (Adventure Hornblower Cruise – don’t forget to buy a ticket if there are some left).

Also, at the Renal Section Banquet, awards will be presented to the 2018 Renal Section New Investigator Awardee Oleg Palygin from Medical College of Wisconsin and to the 2018 Renal Section Research Recognition Awardees: Paul Richard Grimm (University of Maryland College of Medicine), Suttira Intapad (Tulane University), Aaron Polichnowski (East Tennessee State University), and Markus Rinschen (University of Cologne, Germany).

Two years ago, in order to recognize the outstanding quality of the renal research ongoing from our junior scientists, we introduced Trainee Recognition Presentations from the highest scored candidates whom the Committee did not select as finalists in the competition. It was received very well and we continue this tradition in 2018.

This year we will have presentations (also at the Renal Section Posters and Professors Event) from: Predoctoral – John Allan (University of Alabama at Birmingham); Joshua Curry (University of Kansas Medical Center); Winnie Huang (University of California, San Diego); Suchun Li (Institute of Hypertension, Zhongshan School of Medicine, China); and Urvi Nikhil Shroff (University of Southern California). Postdoctoral – Renato Crajoinas (University of Sao Paulo, Brazil); Lauren Douma (University of Florida, Gainesville); Malgorzata Kasztan (University of Alabama at Birmingham); Peng Wu (New York Medical College); and Qi Wu (Aarhus University, Denmark).

Special thanks to the 2018 Renal Section Awards Committee composed of Erika Boesen (UNMC), Krishna Boini (Univ. of Houston), Henrik Dimke (USD, Denmark), Robert Hoover (Emory; Co-Chair), James McCormick (OHSU), Jennifer Pluznick (JHU), Timo Rieg (USF), Aylin Rodan (Univ. of Utah), Alexander Staruschenko (MCW; Chair), and Jennifer Sullivan (Augusta Univ).

The committee for selecting the New Investigator Award consisted of Edward Inscho (UAB, Chair), David Ellison (OHSU), Robert Hoover (Emory), and Alexander Staruschenko (MCW). We thank Ann Marie Bocus at APS for her excellent administrative support!
The 2018 Renal Section Banquet will be held aboard the Adventure Hornblower!

We will board the ship from the F Dock at the Marriott Marina, within walking distance of the Convention Center. This event takes place Monday April 23, 2018, from 6 – 9 pm and includes a cruise around the San Diego Bay! Please check your APS Renal Section Digest emails for additional details regarding the Renal Dinner at EB2018!

We want to thank our generous Renal Section members who donated to Don Kohan’s fundraising drive for the Renal Endowment Fund. To date, this drive has raised over $25,000! We want to express our immense gratitude to all who have contributed. These funds will be matched by APS, doubling each individual’s contribution, and will help support section activities for many years to come.

To donate, please visit: https://ebus.theaps.org/personifyebusiness/OneClickDonation.aspx?ProductId=1697311

One distinguishing feature of our journal is the dedicated renal physiology community that it serves. My editorial team and I very much appreciate the highly impactful work that you have submitted to us, in exciting areas such as acute kidney injury, chronic kidney disease, diabetes, hypertension, the renin-angiotensin system, bladder physiology, etc. In return, AJP-Renal offers a number of benefits for authors: no submission fees; no page or figure limits; cited half-life of ~9 years; 18 days to first decision; articles online within days of acceptance; open access option available.

Thanks to your support, our submission rate has remained steady this year, and our impact factor has continued to increase, from 3.390 (in 2015) to 3.611 (in 2016).

Do you know that in addition to kidney physiology, our journal also publishes research articles on the bladder and urinary tract? To emphasize our inclusiveness, we recently adopted a new tagline: “A Journal for Kidney, Bladder, and Urogenital Research.” Also, two of our current Calls for Papers focus on “Inflammatory Mediators in Kidney/Bladder Diseases” and “Mechanisms of Inflammation and Hyperplasia in the Prostate.”

Another Call for Papers targets translational work: “Precision Medicine in Kidney Disease and Injury.” This call is part of our major efforts to expand our clinical readership. Those efforts began a couple of years ago with a series of Perspectives Articles, where clinicians introduce opportunities for translational research. The Perspectives Article series is flourishing, and we are happy to report that the submission rate of clinical research manuscripts has jumped.

Yet another Call for Papers highlights research in “Sex and Gender in Renal Health and Function.” This call is timely given the community’s increasing awareness of sex as a key biological variable. Indeed, this fall APS is hosting a meeting in “Cardiovascular, Renal and Metabolic Diseases: Sex-Specific Implications for Physiology.” We invite you to submit your research in these and other relevant areas to us.

We look forward to seeing you at the 2018 FASEB Meeting in San Diego. Please be sure to stop by the APS booth in the exhibit hall. On Sunday night, APS will be hosting the annual Editorial Board Member dinner. At that dinner we will honor our Star Reviewers, who averaged reviewing 16 submitted manuscripts last year: R. Todd Alexander (University of Alberta), Zheng Dong (Augusta University), and Ruisheng Liu (University of South Florida). As always, we appreciate all your effort that goes into reviewing for our journal.

Thank you for your continued support of AJP-Renal!

Darwin Bell, Editor in Chief, AJP-Renal
Greetings from the Renal Section Trainee Advisory Committee Representative Malgorzata (Gosia) Kasztan (University of Alabama at Birmingham, mkasztan@uabmc.edu).

I would like to sincerely welcome the new members of the Renal Section Trainee Advisory Subcommittee, which includes Ina Maria Schiessl (University of Southern California; Christine Klemens (Medical College of Wisconsin College of Wisconsin; and Riyaz Mohamed (Augusta University); as well as thank the more experienced members, including Jessica Faulkner (Augusta University), Blythe Shepard (Georgetown University), and Viktor Tomilin (UTHSC at Houston) for staying with me for this term. I am looking forward to working with such an outstanding and dedicated group of people!

The TAC’s role is to help APS support trainees, graduate and undergraduate students, postdocs, and junior faculty in academia, industry and government.

EB 2018 is coming! A complete list of trainee sessions and activities is at http://www.apsebmeeting.org/.

Please come to the Posters and Professors Session, which will feature a friendly atmosphere allowing for networking with all those amazing scientists you were so scared to talk to. Free drinks and snacks! Mark your calendars for Sunday, April 22, 5:30-7:30 PM, Marriott Marquis & Marina – Marina Ballroom Salon F.

The Renal Section is on FACEBOOK! We are growing, please join us! Please consider following the APS Renal Section, The American Physiological Society, and APS Trainees– it’s a great way to stay in touch with the Section and get all the important updates. Email us at: aps.renalsection@gmail.com.

As you are reading this, the current crop of applications for service on APS wide committees are under review! Having enthusiastic and hard-working committee members is critical to the success of the APS as a member-driven society. Thank you to those Renal Section members who have thrown their hats into the ring!

If you would like to know more about the selection process and future opportunities, please come and find me at EB, send me an email sometime (erika.boesen@unmc.edu), or check out the APS website: http://www.the-aps.org/mm/hp/Audiences/APS-Committees. Applications to start service on committees in 2020 will be due in January 2019.
Physiologists in Industry Committee

Romer Gonzalez-Villalobos

PIC Symposium: Biosensors Advancing Health and Disease Research
Monday, April 23, 1:30 - 3:00 PM
Convention Center, Room 26

Check out the latest and greatest in biosensor technology! The PIC is sponsoring an exciting symposium entitled “Biosensors Advancing Health and Disease Research”. This symposium explores three new applications for biosensor technology in life science research and how they are used to produce better results. The session will be chaired by Brandon Bucher (AD Instruments) and co-chaired by T Dylan Olver, Ph.D. (University of Missouri). Mr. Boucher is an active member of the committee and Dr. Olver is our 2017 Novel Disease Model Award recipient at the postdoctoral level.

Physiologists in Industry Committee “2018 Translational Research Award” Winners!
This award recognizes trainees (pre and postdoctoral level) performing research that is translatable to industry applications. The winner of the 2018 postdoctoral award is Dr. Paramita Pati, University of Alabama at Birmingham, for the project entitled “Evidence for circadian control of endothelial function in mice on a high fat diet”. The winner of the predoctoral award is Jianxiang Xue, University of South Florida, for the project entitled “Inducible intestinal epithelial cell-specific NHE3 knockout causes diarrhea and more alkaline liminal content”. Both awards will be presented at the APS Business Meeting Tuesday, April 24, at 5:30 PM in room 20A of the San Diego Convention Center.

Physiologists in Industry Committee (PIC) Mixer
Sunday, April 22, 6:45 PM
Marriott Oceanside Room

You’re invited! Come meet, eat, and socialize with your fellow physiologists who are working in the corporate, industrial, academic, or government sector. The Mixer is an informal gathering of EB registrants who either work in industry, considering a career in industry, or just want to meet people from industry. Bring your students, colleagues and friends.

Physiologists in Industry Committee Meeting
The annual APS PIC meeting is scheduled for Sunday, April 22, at 12:30. This is the committee’s annual opportunity to have a face-to-face meeting to discuss committee business and new initiatives. Please feel free to contact me with ideas and suggestions, Rgonz180@its.jnj.com.

We are looking forward to seeing you all at the EB 2018 events!

NHLBI Liaison

Christine Maric-Bilkan
Christine.maric-bilkan@nih.gov

As you are all aware, Congress is still working on the budget for fiscal year 2018 (at least at the time I am writing this). In the meantime, the NIH is operating under a continuing resolution which continues government operations at FY 2017 enacted levels. Until further notice, the NHLBI is honoring the FY 2017 paylines (https://www.nhlbi.nih.gov/node-general/fy-2018-funding-and-operating-guidelines). The payline may of course change depending on the final FY 2018 budget, so stay tuned!

While this may not be news to many, I think it’s important to mention as it is a major change in policy related to submission of P01 applications (aka PPGs). I would urge anyone intending to apply for these grants to read the Notice (https://grants.nih.gov/grants/guide/notice-files/NOT-HL-17-529.html) and more importantly, contact your Program Officer for advice and guidance.

For those of you thinking of applying for funding for a clinical trial (small or large), please note that the NHLBI has changed the policies and procedures for the acceptance, review, and funding of investigator-initiated clinical trials. For information on how to submit Single-site Investigator-initiated Clinical trials please see the URL at https://grants.nih.gov/grants/guide/pa-files/PAR-16-405.html. For information on how to submit Multi-site Investigator-initiated Clinical trials please see (https://grants.nih.gov/grants/guide/pa-files/PAR-16-300.html) and (https://grants.nih.gov/grants/guide/pa-files/PAR-16-301.html). Since there has also been some confusion as to what actually constitutes a clinical trial (and many studies involving human subjects are), the NIH definition of clinical trial can be found at (https://grants.nih.gov/grants/guide/notice-files/NOT-OD-15-015.html).
**Renal Section Steering Committee**

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**Updates from the Career Opportunities in Physiology Committee – Kelly Hyndman**

The Career Opportunities in Physiology Committee supports a number of APS programs to foster the career development of physiologists of all ages:

**EB Symposium: “Hallmarks of and ground rules for productive collaborations in science”**
Join us Sunday, Monday and Tuesday at 7:00-8:00am in the San Diego Convention Center, Room 25B for a light breakfast and “nuts and bolts” series of discussions on collaborations. Specific questions panelists will discuss include: How do I establish and maintain a successful collaboration?; What does communication and data sharing look like in a productive collaboration?; What does a ‘typical’ collaboration look like and entail?; How are intellectual property rights and authorship managed across collaborations? Each day will feature different speakers and their perspectives on these topics. Visit [http://www.the-aps.org/collaborations-in-science](http://www.the-aps.org/collaborations-in-science) for more information.

**Experimental Biology Undergraduate Orientation and Poster Sessions**
Open to all undergraduate students attending EB, the Undergraduate Orientation session serves as a primer to help the students get the most out of their EB experience, and includes award presentations for various APS-sponsored undergraduate research programs. This will be held at the Marriott Marquis & Marina (room TBA) from 3:30-5:30pm on Saturday, April 21. There is also a special poster session for undergraduate students at EB, held from 4:00-5:30pm (undergrad presenters must arrive by 3:00pm to hang posters) on Sunday April 22 in the San Diego Convention Center, Sails Pavilion – please stop by and meet the next generation of physiologists!

**Positively Influence a Future Physiologist at EB 2018**
Volunteer APS member hosts (PIs, postdocs or graduate students) are needed to guide local high school students and teachers around the EB exhibits and posters on Monday, April 23, from 11 a.m. to 1:30 p.m. Each year, students say this is their favorite part of the teacher-student workshop day.

Follow the link: [https://www.surveymonkey.com/r/HighSchoolStudentTeacherTourGuideEB2018](https://www.surveymonkey.com/r/HighSchoolStudentTeacherTourGuideEB2018)

**APS Video Contest – VOTE NOW!!**
Each year we encourage undergraduate and graduate students to creatively connect with physiology and bring it the broader public through a short video contest. This year we have 9 videos and it is time to vote for the viewer’s choice award – YOU be the judge! Visit [http://www.the-aps.org/vote](http://www.the-aps.org/vote) to view this year’s entries, go to: [http://bit.ly/1nmGEWf](http://bit.ly/1nmGEWf)

**The APS Local Undergraduate Research Award in Physiology (LURAP)**
LURAP allows APS Members to recognize excellence in physiology research by undergraduates at their home institutions. The award fosters interest in physiological research for undergraduates, encourages them to continue with physiological studies, and provides networking with APS members at their home institutions. The award package includes a certificate, an APS t-shirt, and a free one-year undergraduate membership. Visit [www.the-aps.org/lurap](http://www.the-aps.org/lurap) for more information.