IMPORTANT RENAL DEADLINES

February 23, 2015
Discounted Housing Deadline

February 27, 2015
Renal Section Young Investigator Award Nominations Deadline

March 28 - April 1, 2015
EB 2015 in Boston!
See you there!
2015 Robert Berliner Award Excellence in Renal Physiology

Dr. Heini Murer

It is with great pleasure that the Renal Section announces the 2015 Robert W. Berliner Award for Excellence in Renal Physiology, Dr. Heini Murer. Professor Murer (University of Zurich) was one of the inventors of methods for making membrane vesicles from the apical and basolateral epithelial cell membranes of kidney and intestine. These methods became one of the fundamental techniques of renal transport physiology along with the isolated perfused tubule and transport in micropuncture. These preparations eventually led to understanding of sodium-coupled solute transport in the proximal tubule and small intestine, and finally were the basis for the cloning of key transporters like NHE3, SGLT2 and NaPi2 and many others. During his career, he has published nearly 500 papers, 47 of which were published in the AJP. He was also the recipient of multiple awards including the Homer W. Smith Award of the ASN and the Carl Gottschalk Lectureship of the APS. Professor Murer will be honored at the Renal Dinner, and will participate in the Renal Section’s Posters and Professors Reception at EB 2015.

2015 Carl W. Gottschalk Lecturer

Dr. Tom Kleyman

Tom Kleyman, MD will present this year’s Carl W. Gottschalk Distinguished Lectureship. Dr. Kleyman is the Sheldon Adler Professor of Medicine and Chief of the Renal-Electrolyte Division at the University of Pittsburgh. He is also a Professor of Cell Biology, and a Professor of Pharmacology and Chemical Biology at the University of Pittsburgh, and is the Director of the Pittsburgh Center for Kidney Research. Over the past 30 years, Dr. Kleyman’s research has been supported by grants from the NIH, VA and the AHA. His research focuses primarily on epithelial Na+ channels (ENaCs) to elucidate the mechanisms by which external factors, such proteases, laminar shear stress and ions (including Na+), regulate ENaC gating. Dr. Kleyman continues to make important contributions in the areas of renal and transport physiology, and to the APS. The Renal Section is honored to have him present the 2015 Carl Gottschalk Distinguished Lecture.

2015 Renal Section Young Investigator Award

Dr. Jennifer Sullivan

Dr. Sullivan earned her Ph.D from the Albany Medical College, Albany, NY in 2000. After completion of her Ph.D., Dr. Sullivan sought further training in cardiovascular biology and physiology as a post-doctoral fellow with Dr. Jennifer Pollock at the Medical College of Georgia, Augusta, GA, where she has successfully developed an independent research career. Her research focuses on understanding the molecular mechanisms that regulate blood pressure in males and females under both physiological and pathophysiological conditions, including hypertension. Much of her subsequent work has searcher for the role of inflammation in hypertension in females. Her more recent work indicate that blood pressure in females is sensitive to lymphocyte inhibition and that hypertensive females exhibit a blood pressure-dependent increase in regulatory T cells that is not seen in males. Jennifer has received numerous honors and awards from the APS and the AHA. The Renal Section is honored to have Dr. Jennifer Sullivan as the recipient of the 2015 Young Investigator Award.
EB’15 in Boston promises to be a wonderful and exciting meeting. Outstanding symposia are programmed, highlighting current advances in the field. As always, the meeting provides an ideal venue to present your latest findings in highly interactive Oral and Poster sessions

**Program Highlights:** See at [http://www.apsebmeeting.org/eb2015/week-at-a-glance.htm](http://www.apsebmeeting.org/eb2015/week-at-a-glance.htm) for entire program.

**Saturday, March 28**

**APS Workshops**
1:00PM-3:00PM, Room 26A
- **Big Data Workshop** (Lindsey and Wilson)
3:30PM-5:00PM, Room 26A
- **Proteomics for the Physiologist** (Adhikari and Rinehart)

**Pre-EB Epithelial Transport Meeting for Young Researchers 2015**
9:00AM-5:00PM, Room 206B. Further information: Robert Fenton at [ETG2011@ANA.AU.DK](mailto:ETG2011@ANA.AU.DK)
5:30PM-6:30PM Room 210BC
- **Cannon Award Lecture**, Masashi Yanagisawa

**Sunday, March 29**

10:30AM-12:30PM, Room 211
- **Renal Section Young Investigator Award symposium**: Jennifer Sullivan
  **Immune Cells, The Kidney and Hypertension**
  Chairs: Jennifer Sullivan and Darwin Bell
  Featured Topic Jennifer Sullivan, Young Investigator Award
  Sex determines the renal T cell profile in hypertension.

3:15PM-5:15PM, Room 211
- **Symposium: Control of Electrolyte Balance by Novel Pathways in Intercalated Cells**
  Chairs: Steven C. Sansom and P. Richard Grimm
  Speakers:
  - **Donghai Wen**, Role of intercalated cell BK channels in Na-dependent K secretion
  - **Lisa Satlin**, K secretion through intercalated cell NKCC and BK channels
  - **Janos Peti-Peterdi**, Paracrine control of Na transport by intercalated cells
  - **Susan Wall**, HCO3 and Cl transport by beta-intercalated cells

**Monday, March 30**

8:00AM-10:00 AM, Room 206B
- Abstract Driven Oral Presentation “Featured Topic” Recent Advances in Renal Physiology and Kidney Disease I.
  Chairs: Xiangming Li (Top rated Abstract Author Trainee) and Pablo Ortiz

10:30AM-12:30PM, Room 211 BC
- **Novel mechanisms in renal function and blood pressure regulation**
  Chairs: Ora Weisz and Paulo Caceres
  - **Blythe Shepard**, Olfactory receptors in renal function and blood pressure control
  - **Bradley Yoder**, Cilia in renal function
  - **Mariela Mendez**, SNAREs in renin release and blood pressure regulation
  - **Kamal Rahmouni**, BBSome proteins in hypertension

3:15PM-4:15PM, Room 205B
- **Carl Gottschalk Lecture**, Thomas Kleyman (University of Pittsburgh)
Tuesday, March 31st

8:00AM-10:00AM, Room 211
Abstract Driven Orals "Featured Topic"
Recent Advances in Renal Physiology and Kidney Disease II Chaired by Chaired by Daria Ilatovskaya (Top Abstract Author Trainee) and Paul Welling

10:30AM-12:30PM, 210 BC
Symposium: "Omens" and Epithelial Systems Physiology Chaired by Eric Delpire and Jim McCormick.
Markus Rinschen, Proteomic analysis of the Kidney Filtration Barrier.
Anne-Claude Gingras, Protein interaction network of the Hippo pathway reveals mechanisms of kinase-phosphatase interactions
Rick Grimm, Global Compensatory Response to Loss of Thiazide-sensitive Sodium Chloride Countertransporter Phosphorylation
Katalin Susztak, Genome wide Transcriptome and Epigenomics of Kidney Disease Reveals Notch pathway in podocytes.
Jesse Rinehart, Reading and Writing Regulatory Networks Underlying Human Epithelial Transport Diseases

Wednesday, April 1st

4:45PM-5:45PM, Room 210BC:
Nobel Prize Lecture, Robert Lefkowitz

Please Submit your Proposals for EB2016:

We encourage you to submit a proposal for Renal Section Symposia at the Experimental Biology Meeting '16. We especially encourage junior investigators to organize these sessions. No grey hair required. This is a great opportunity to ask friends, enemies, or scientific competitors to give talks highlighting their work. Everyone gets complimentary registration and there are additional funds to help with travel expenses. The process is easy.

There is a form (EB Section-Sponsored Symposia Form) available for download at the following website: [http://www.the-aps.org/mm/Conferences/EB](http://www.the-aps.org/mm/Conferences/EB). Simply send (email) the completed form to one of your programming representatives, Paul A. Welling (pwelling@umaryland.edu) or Pablo Ortiz (PORTIZ1@hfhs.org) by March 20, 2015, so that we have time for discussion at EB ’15. Symposia are evaluated on theme, diversity of speakers/chairs (gender, race, stage of career), and potential impact. After review, selection, and final revision, your Renal JPC representatives will submit the selected symposia to APS. Please do not send the form directly to APS.

"New" for EB 2016: Integrative Symposia:

For EB2016 the Cross-Sectional Symposia will be replaced by a new initiative, 'Integrative Symposia'. The APS Joint Program Committee is seeking member input for our new Integrative Symposia Series at the Experimental Biology 2016 meeting, April 2-6, in San Diego. The Integrative Symposia Series will cut across physiological research areas (e.g. involve multiple sections) and should be of interest to a broad audience.

The Joint Program Committee is seeking breakthrough topics and excellent speakers to highlight in this four-symposium series. Topics will be vetted by the Joint Program Committee and combined and consolidated to form four 2-hour sessions comprising four presenters each. 2016 EB Integrative Symposia: Call for Topics and Speakers. Deadline is March 13, 2015. Please complete the form [https://www.surveymonkey.com/r/7JBRDTT](https://www.surveymonkey.com/r/7JBRDTT).
As in previous years, the APS Renal Section Awards Committee received high numbers of applications in every category in 2014/2015. The abstracts and applications were of very high quality and competition was strong. In addition to the finalists and awardees listed, there were many other highly meritorious applicants and candidates that the Committee was unable to recognize individually. Thank you very much to all participants in this year’s competition, keep up the fantastic science and make sure to submit again next year.

Finalists for the 2015 Renal Section Predoctoral Excellence in Renal Research Award are Nabila Boukelmoune (The University of Texas Health Science Center at Houston), Augustin Gonzalez-Vicente (Case Western Reserve University), Venkatesan Raghavan (University of Pittsburgh), Xiao-Tong Su (New York Medical College) and Lorena Vega (Universidad Nacional Autónoma de México)

Finalists for the 2015 Renal Section Postdoctoral Excellence in Research Award are Daria Ilatovskaya (Medical College of Wisconsin), Xianming Li (University of Maryland), Mykola Mamenko (University of Pittsburgh), Elizabeth Oliveira-Sales (Federal University of São Paulo) and Blythe Shepard (Johns Hopkins University)

All finalists for the Renal Section’s pre- and postdoctoral awards above are scheduled to present their work at the Posters and Professors Reception on Sunday, March 29 from 5:30 to 7:30 pm at the Westin Boston Waterfront, Grand Ballroom C during EB2015. Winners in these categories will be announced at the Annual Renal Section Banquet to be held on Monday, 30 March, 2015.

Other awards to be presented at the Renal Section Banquet will include the 2015 Renal Section New Investigator Award to Jennifer Pluznick (Johns Hopkins University) and 2015 Renal Section Research Recognition Awards to Krishna Boini (Virginia Commonwealth University), Utpal Sen (University of Louisville), and Oleg Zaika (University of Texas Health Science Center Houston).

The 2015 Renal Section Awards Committee is composed of Mitsi Blount (Emory University), Carolyn Ecelbarger (Georgetown University), Robert Fenton (Chair; Aarhus University), Fred Palm (Uppsala University), Nuria Pastor- Soler (University of Pittsburgh), Oleh Pochynyuk (University of Texas Health Science Center Houston), Alexander Staruschenko (Co-chair; Medical College of Wisconsin), Timo Rieg (University of California San Diego) and Paul O’Connor (Georgia Regents University). In the case of conflicts of interest and for helping select the New Investigator award, Volker Vallon (University of California San Diego), Heddwen Brooks (University of Arizona), and Don Kohan (Renal Section Chair, University of Utah) provided the Committee with valuable assistance. We thank Ann Marie Bocus at APS for her administrative support.

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**News from the Treasurer, Michelle Gumz**

**EB 2015 RENAL DINNER**

WHERE: Seaport Hotel Lighthouse Ballroom  
One Seaport Lane  
Boston, MA 02210

WHEN: Monday, March 30th, 2015  
6:30 – 10:30 PM

For questions please contact Michelle L. Gumz, PhD., Banquet Organizer (Michelle.Gumz@Medicine.ufl.edu); or Ann Marie Bocus, APS Sections Administrator (abocus@the-aps.org) or (301) 634-7976). Additional information can be also found at [http://www.the-aps.org/mm/hp/Audiences/Sections/banquets/RenalBanqWeb.pdf](http://www.the-aps.org/mm/hp/Audiences/Sections/banquets/RenalBanqWeb.pdf) Just a few dinner tickets are still available and will be sold on site at EB through the APS Office. Thanks to everyone who participated in the survey regarding the future of the Renal Section Dinner!
Physiologists in Industry Committee (PIC) Report

Josef G. Heuer

The APS Physiologists in Industry Committee (PIC) is sponsoring a Symposium at EB2015 entitled “Targeting Gut Microbiome in Human Diseases and as Novel Therapeutics” on Sunday, March 29, 10:30–12:30pm at the Boston Convention Center, Room 205B.

This symposium covers the spectrum of intestinal microbiome research, from basic concepts in mammalian gut microbiome to disease associations and therapeutic implications. Advances in DNA sequencing and bioinformatics have revolutionized our understanding of the microorganisms that inhabit the gut. This new knowledge helps us understand how host–bacterial interactions contribute to normal physiology and provides the foundation to formulate novel therapeutic strategies. In this symposium, speakers will describe specific and potential therapeutic applications of the targeting gut microbiome. This section will be chaired by Carol Moreno Quinn, Ph.D. and co-chaired by Suttira Intrapad, Ph.D., who was our 2014 PIC Novel Disease Model Award recipient.

The PIC Novel Disease Model Award is sponsored by Novo Nordisk Research Centre China, a world leader in developing innovative treatments for Diabetes. Two awards are granted each year to a graduate student ($500) and a postdoctoral fellow ($800) who submit the best abstracts at EB meeting that describe a novel disease model. It is my great pleasure to announce our 2015 PIC Novel Disease Model Award recipients: Pre-doctoral awardee, Ms. Casey Y. Carmichael, Boston University School of Medicine, Dept. of Pharmacology & Experimental Therapeutics, and her abstract entitled “The renal afferent nerves: A role in countering salt-sensitive hypertension”. Post-doctoral awardee: Dr. Denise C. Cornelius, Ph.D., University of Mississippi Medical Center, Dept. of Pharmacology, and her abstract entitled “Placental Ischemia-Induced TH17 Cells Mediate the Pathophysiology Associated with Preeclampsia”. Both awards will be presented at the APS Business Meeting on Tuesday, March 31 at 5:45 PM in Room 210BC of the Boston Convention Center.

You’re invited! Come meet, eat and socialize with your fellow Physiologists who are working in the industrial, academic, or government sectors. The Annual Physiologists in Industry Committee Mixer will feature free hors d’oeuvres along with information on the roles of Physiologists in Industry. The mixer will be held on Sunday, March 29, at 6:45 PM in the Revere Room of the Westin Boston Waterfront. This is a great opportunity to network with our industry and academic APS members alike, we hope to see you there!

The annual PIC committee meeting is scheduled on Sunday, March 29, 2015, 2:30-4:00pm in the Revere Room, Westin Boston Waterfront. 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 your PIC section representative if you have new ideas and matters to be brought to the attention of the PIC.

Looking forward in seeing you all in Boston!

Committee on Committees Report

Fred Palm

Thank you to all of you who submitted nominations to serve on the APS committees. The process to select the 2016 committee positions will start during EB when the Committee of Committees meet. The Renal Section has excellent candidates, which makes my job so much easier! The result from this selection process will be available during the summer of 2015. If you are interested in getting more involved in the society, it is a great way of doing so by serving on one of the APS committees. Most committees are available for both trainees and regular members.

More information about the nomination procedure (which is easy) and all committees is available at http://www.the-aps.org/mm/hp/Audiences/APS-Committees. If you have any questions or need more information please do not hesitate to contact me at fredrik.palm@mcb.uu.se or in person at EB2015 in Boston.
Darwin Bell

As we begin 2015, the Editors and I are looking forward to a great new year at AJP-Renal. Our submissions have held steady and we have been receiving quality research papers and review articles.

We are extremely proud of our papers that have been selected to appear in APS select, including last month’s selection: PKC-α contributes to high NaCl-induced activation of NFAT5 (TonEBP/OREBP) through MAPK ERK1/2 by Hong Wang, Joan D. Ferraris, Janet D. Klein, Jeff M. Sands, Maurice B. Burg, Xiaoming Zhou. AJP- Renal Physiology. 15 Jan 2015. Vol. 308: F140-F148. DOI: 10.1152/ajprenal.00471.2014.

We are excited about our Perspective articles. These articles are written by clinicians that introduce opportunities for translation, or "bench-to-bedside" research, where knowledge from basic science research in renal physiology can be harnessed to produce new drugs, devices, or treatment options for patients. Look for these to start appearing.

Another new category we have recently launched is called Rapid Reports. This publication is meant for authors wishing to communicate new findings which could potentially have a major impact on the field. This manuscript category offers a fast track for publication for findings that are compelling, innovative and novel. A decision (accept, reject or minor revisions) will be reached within approximately 10 days from receipt of the manuscript by our editors.

We have updated our Calls for Papers for 2015,
- Juxaglomerular Apparatus- New Mechanisms and Functions
- Lower Urinary Tract Symptoms
- Non-Coding RNA in Kidney Disease
- Transport Proteins as Regulators of Blood Pressure Homeostasis

More information about these calls can be found at http://ajprenal.physiology.org/

Please drop by the American Physiological Society’s booth at EB 2015 in Boston and please visit our Facebook page at: https://www.facebook.com/AJPRenal. Deputy Editor Anita Layton is doing a wonderful job of posting articles that are of great interest to the Renal community. You are also welcome to post comments or suggest articles; this site is for all of us who are interested in the journal.

Keep sending your best work to AJP-Renal!

The TAC’s role is to help APS support trainees, graduate and undergraduate students, postdocs, and junior faculty in academia, industry and government. The 2015 EB is coming! A complete list of trainee sessions and activities is at http://www.apsebmeeting.org/ Just a few of them: Trainee and Early Career Cross Sectional Featured Topic "Recent Advances in Obesity Research”. Monday, March 30, 8-10:00 AM, 210BC; Publishing 101: “How to Get Your Work Published and Avoid Ethical Minefields”. Monday, March 30, 8:00-10:00 AM, Room 205C; and the TAC Symposium: “Scientists as Supervisors: Hiring, Firing, and Beyond”. Wednesday, April 1, 10:30-12:30 AM, room 206A.

APS Nobel Prize Lecture: Robert J. Lefkowitz (studies of G-protein coupled receptors), Wednesday, April 1, 4:45-5:45 PM, room 210BC.

Please come to the trainees-PIs mixer at EB 2015! Renal TAC will be sending out a detailed letter inviting you to the 2015 Posters and Professors Session, which will feature 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, March 29, 5:30-7:30 PM, Westin Boston Waterfront, Grand Ballroom C.

Renal Section is now on FACEBOOK! We are proud to have 160 likes, let’s not stop here! Please consider following the APS Renal Section, The APS, and American Physiological Trainees – it’s a great way to stay in touch with the Section!

We are expressing our sincere gratitude to the outgoing TAC for the amazing job they’ve been doing over the last 3 years. Thank you so much, Pablo Cabral, Debra Irsik, and the outgoing Renal TAC lead, Vanesa Ramseyer!

The new APS Renal Trainee Advisory Committee (TAC) includes Malgorzata Kasztan, University of Alabama at Birmingham, mkasztan@uab.edu; Mykola Mamenko, UTHSC at Houston, mykola.mamenko@uth.tmc.edu; Robert Menzies, University of Edinburgh, UK, robert.menzies@iqmm.ed.ac.uk; and Xiangming Li, University of Maryland, xli@som.umaryland.edu. Feel free to address the Renal TAC with any questions or concerns, as we are here to do our best to improve trainees experience!
News on Career Opportunities

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

**Resilience is Power: Dealing with the ups and downs of your scientific career**

A not-to-be-missed event for physiologists at all career stages, this year’s Career Opportunities in Physiology symposium at 2015 EB will be held in Room 207, 8am on Tuesday, March 31.

**Experimental Biology Undergraduate Orientation Session:** Open to all undergraduate students attending EB, this 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. Westin, Commonwealth Ballroom A/B from 3:30-5:30pm on Saturday, March 28.

**APS Video Contest – VOTE NOW!!** Each year we encourage undergraduate and graduate students to creatively connect with physiology and bring it to the broader public through a short video contest. In addition to a first place prize of $750, there is a $250 viewer’s-choice award – YOU be the judge! Follow the link below to view previous winners and this year’s entries. Vote for your favorite before March 28! [http://www.the-aps.org/mm/Education/Undergraduate/Student-Awards-and-Events/Physiology-Video-Contest.aspx](http://www.the-aps.org/mm/Education/Undergraduate/Student-Awards-and-Events/Physiology-Video-Contest.aspx)

**Science Fair Prizes:** Know of a science fair near you? The APS has FREE prizes to give away! Just fill out a simple online request form and APS members can present one award per science fair. Student winners receive an APS t-shirt and a certificate for the best physiology project. The teachers of the winning students will receive an APS teaching resource packet. Follow this link for further details: [http://www.the-aps.org/mm/awards/Other-APS-Awards/K-12-Student](http://www.the-aps.org/mm/awards/Other-APS-Awards/K-12-Student)

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