SAVE THE DATE
Boston, March 28th, 2015

The Pre-EB Epithelial Transport Meeting for Young Researchers

The meeting will be held between 9.00AM – 5.00PM in Boston Convention & Exhibition Center Room 206B

TRAVEL GRANTS AVAILABLE TO TRAINEES

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Message from the ETG Chair Moshe Levi

This year the ETG Steering Committee put together an exciting Program for EB 2015 in Boston.

On Saturday March 28 we are going to have our Pre-EB Epithelial transport meeting chaired by Robert Fenton where graduate students, postdoctoral fellows, and young faculty members will have the opportunity to present their ongoing work to a friendly group of young and more mature experienced investigators.

Janet Klein has applied for NIH Travel Grant and has been successful in obtaining funding for Travel Awards from NIH NIDDK and NIH NIA for the pre-meeting as well as for the abstracts to be presented during the EB Meeting.

On Tuesday March 31 we are going to have 2 Featured Topic Sessions as well as the ETG Symposium on Autophagy. Each Featured Topic Session has one invited lecturer and 5 oral presentations selected from the abstracts submitted to ETG.

This year the USSING LECTURE will be presented by Professor Jerrold Turner, MD, PhD, Professor and Associate Chair, Department of Pathology, University of Chicago. He is the world’s leading expert on intestinal barrier function, which becoming increasingly recognized for its importance in metabolic diseases including diabetes and obesity as well as inflammatory bowel disease.

This year the HEBERT LECTURE will be presented by Professor Melanie Cobb, PhD, Professor of Pharmacology and Jane and Bill Browning Jr. Chair in Medical Science, University of Texas Southwestern Medical Center. She is the a leading expert on MAP kinase signaling which we all know plays a central role in regulation of major cellular functions.

The ETG AUTOPHAGY and AGING symposium will have 4 speakers:
1) Richard Morimoto from Northwestern University will speak on Proteostasis: in Biology, Aging, and Disease
2) Tobias B Huber from Albert-Ludwigs-University will speak on Autophagy and kidney. Insights from specialized epithelia
3) Michael N. Sack from NHLBI/NIH will speak on Nutrient Sensing Modulates Mitochondrial Quality Control and the Inflammasome – a Sirtuin Perspective
4) Jaime Schneider from Albert Einstein College of Medicine will speak on Chaperone-Mediated Autophagy: connecting metabolism, proteostasis, and aging.

We are looking forward to seeing all of you in Boston.
Twice a year, on the days preceeding the FASEB Experimental Biology meeting and the American Society of Nephrology annual meeting, a research symposium is held that focuses on all aspects of epithelial cell transporters, channels and receptors, their function and their regulation. The symposia are usually attended by between 80 and 120 researchers and have been held, in some form or another, since 1991.

**Purpose:**
As the name implies, although everyone is welcome to attend the ‘Young Investigators Symposium’ special emphasis is given to younger researchers (PhD/graduate students, post-doctoral fellows etc.) who get the opportunity to present their work in a friendly and less formal atmosphere. The meeting will consist of short communications (10-15 min duration) and ample time is allocated for extensive discussion.

**Registration:**
A small registration fee (usually $20) gives you a full day of research talks tailored specifically to your areas of interest and we include coffee!

**For further information please contact ROBERT FENTON (ETG2011@ana.au.dk).**

At the last symposium, held in Philadelphia in November, over 80 researchers from 16 different countries attended. The symposium was a great success.

If you are interested in attending/presenting, then please send your name and potential presentation title/authors and abstract to the email address below. Approximately 3 weeks before the meeting you will be notified if you have been selected for an oral presentation.

**The next meeting will be held on March 28th between 9.00AM – 5.00PM (Saturday before the EB meeting) in the Boston Convention & Exhibition Center, Room 206B**

**Travel scholarships:**
We are able to offer limited travel scholarships to young investigator presenters to help defray the extra costs associated with this meeting. Therefore, please submit an abstract to be considered for these awards. **Travel awards made possible from a grant from NIH NIDDK and NIH NIA.**

Pre ASN - 2014

Janet Klein, Jeff Sands and Susan Wall

Helle Prætorius and Joe Chou
EB 2015 ETG-Sponsored Lectures

Hans Ussing Lecturer

Jerrold Turner, MD, Ph.D.
Professor and Associate Chair
Department of Pathology
University of Chicago

Title:
"Regulation of mucosal barrier function: Beyond the chambers"

Steve Hebert Lecturer

Melanie Cobb, Ph.D.
Professor of Pharmacology
Jane and Bill Browning, Jr. Chair in Medical Science
U. of Texas Southwestern Medical Center

Title:
"WNKs under high pressure or Hypertension, the missing WNK"
Reasons to Attend ETG Sessions at EB 2015 in Boston

Oral Sessions:

Symposium
Tuesday March 31 | 3:15 – 5:15 PM | Rm 208
Autophagy: Importance in Health, Epithelial Transport and Aging
Chairs: Janet Klein and Moshe Levi

Featured Topics
Tuesday March 31 | 8:00 – 10:00 AM | Rm 208
Epithelial Transport: Pathophysiology
Steve Hebert Lecture: Melanie Cobb, PhD
Chairs: Hanne Møller and Mitsi Blount

Tuesday March 31 | 10:30 AM – 12:30 PM | Rm 208
Epithelial Transport: Cell Biology
Hans Ussing Lecture: Jarrold Turner, MD, PhD
Chairs: Jennifer Bomberger and Timo Rieg

Poster Sessions:

Topics from the Hebert Lecture: Epithelial Transport: Pathophysiology of Transporters and Channels
Tuesday March 31 | 12:30 – 3:00 PM

Topics from the Ussing Lecture: Epithelial Transport: Cell Biology of Transporters and Channels
Tuesday March 31 | 12:30 – 3:00 PM

Other Interesting Oral Sessions:

APS Nobel Prize in Physiology or Medicine Lecture – Robert J. Lefkowitz
Seven transmembrane receptors

Renal Section Gottschalk Lectureship – David Ellison
WNKs, SPAK and NCC: an emerging consensus at last

Solomon A. Berson Distinguished Lectureship – Grahame Hardie
AMP-activated protein kinase: promoting energy homeostasis at the cellular and the whole-body levels
Update on AJP Cell from the Editor: Jo Adams

Members of the Epithelial Transport Group are invited to consider the current Calls for Papers at AJP-Cell Physiology.

Four new Calls for Papers have been initiated that will run until at least June 30, 2015.

These are:
• Call and Molecular Processes in Cancer Metastasis,
• Cell Signaling: Proteins, Pathways and Mechanisms
• Cellular Responses to Hypoxia
• Stem Cell Biology

Continuing Calls include “Omic and Systems Biology Approaches in Neurodegenerative Diseases” and “STIM and Orai Proteins in Calcium Signaling”.

The Journal is currently publishing a series of Reviews in the Theme “Cell Signaling: Proteins, Pathways and Mechanisms”.

The first of these was published this month and is by Helle Prætorius on the subject of “The primary cilium as sensor of fluid flow: new building blocks to the model”.

Coming soon and already available online is by Martin Michel and Roland Seifert on the subject of “Selectivity of pharmacologic tools: implications for use in cell physiology”.

We hope that these articles will prove interesting resources for both experienced and early-stage researchers.

I would like to remind ETG members that AJP-Cell Physiology will sponsor, in association with CaMPS, a Symposium at EB2015 in Boston, on the topic of

“Morphogen Signaling Pathways in Tissue Patterning and Disease Processes”. This Symposium will be held on Sunday March 29 2015, from 10:30AM - 12:30PM in Room 206B of the Boston Convention Centre, Boston, during EB 2015. The speakers will be Alexander Schier (Harvard), Michael Wang (Michigan), Christine Thisse (Virginia) and Michael Boutros (DKFZ, Heidelberg).

I hope to meet members of ETG at this Symposium.

AJP-Cell Physiology continues to provide authors with constructive and fair reviews and a rapid turnaround time to first decision. Our average handling times in 2014 were 1 day for the decision to review and 14 days to first decision. All accepted manuscripts are published on-line within a week of acceptance and become available rapidly on PubMed. Please visit AJP-Cell Physiology at (http://ajpcell.physiology.org) to see the latest papers and highlighted articles and sign up for eTOCs.

Members of ETG are encouraged to submit manuscripts to AJP-Cell Physiology. The team of Associate Editors includes Jason Yuan (Deputy Editor), Eric Delpire, Sophie Lotersztajn, Gregg Semenza and Sanjay Pimplikar.

ETG members are welcome to contact the editorial office (ajp-cell-office@bristol.ac.uk) with any ideas, suggestions and comments regarding AJP-Cell, including ideas for Reviews, Perspectives, Methods in Cell Physiology, or future Calls for Papers. I look forward to hearing from you.

Jo Adams, EIC AJP-Cell Physiology.
Update on AJP Renal from the Editor: Darwin Bell

As we begin 2015, the Editors and I look 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**

Hong Wang, Joan D. Ferraris, Janet D. Klein, Jeff M. Sands, Maurice B. Burg, Xiaoming Zhou.
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 in late spring in AJP-Renal.

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,

- Lower Urinary Tract Symptoms
- Non-Coding RNA in Kidney Disease
- Juxtaglomerular Apparatus – New Mechanisms and Functions
- Transport Proteins as Regulators of Blood Pressure Homeostasis

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

Please drop by the American Physiological Society’s booth at EB 2015 in Boston and visit our facebook page at: [https://www.facebook.com/AJPRenal](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!**

P. Darwin Bell
Update from The Career Opportunities in Physiology Committee

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

Symposium: 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 Experimental Biology will be held in Room 207 at 8 AM on Tuesday, March 31.

Experimental Biology Undergraduate Orientation and Poster Sessions
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. This will be held in the Westin, Commonwealth Ballroom A/B from 3:30-5:30pm on Saturday, March 28. There is also a special poster session for undergraduate students at EB, held from 3:30-5:30pm on Sunday March 29 (East Registration Area) – please stop by and meet the next generation of physiologists!

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. 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! Follow the link: http://bit.ly/1wzfckq

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://bit.ly/1BkhnLu

Summer Undergraduate Research Fellowships
These awards encourage undergraduate students to pursue a career in research, and provide a $4000 stipend and $1300 in Experimental Biology travel support to the student, and a $300 grant to the APS member’s lab. Awards are available both for students with little or no prior research experience (Undergraduate Summer Research Fellowship or UGSRF) or significant exposure to research already (>9 months; Undergraduate Research Excellence Fellowships or UGREF). Applications for 2015 closed on February 1st, but keep this program in mind for next year.

Excellence in Professional (MD/DO) Student Travel Awards
This award provides medical student (not MD/PhD) first-authors with up to $1,800 in reimbursement for travel and advanced meeting registration for Experimental Biology. This award is designed to foster the student’s interest in research by aiding in their participation in the Experimental Biology meeting, along with gaining valuable advice from MD/DO “meeting mentors”. Keep this award in mind for next summer’s crop of future clinician scientists! Applications are due one week after the Experimental Biology abstract deadline in November.
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