

# EPITHELIAL TRANSPORT GROUP NEWSLETTER

## October, 2001

### MESSAGE FROM THE CHAIR

This is my first message as Chair of the Epithelial Transport Group. Our group represents scientists from a variety of disciplines with research interests in epithelial transport and epithelial cell biology. We sponsor a symposium and two abstract-driven featured topics sessions at the annual Experimental Biology meeting. Jim Stockand and Stanley Rane are co-chairing a symposium at EB2002 entitled "Epithelial channels: Regulation by differentiation and growth factors." The featured topics sessions that we are sponsoring at EB2002 include "Insights into epithelial transport physiology gleaned from interactions with intestinal pathogens," chaired by Kim Barrett; and "Epithelial calcium channels: From identification to physiology and pathophysiology," chaired by Matthias Hediger. Our featured topics sessions offer a wonderful opportunity for investigators to present abstracts in a more formal environment, and I encourage investigators with research interests in common with our featured topics sessions to submit abstracts to EB 2002.

We are welcoming three new members to the Steering Committee of the ETG: Jim Stockand, Matthias Hediger, and Kevin L. Kirk. Klaus Beyenbach is our past chair and will continue to serve on the Steering Committee. Other members of the Steering Committee include Cathy Fuller, Mike Duffey, and John Pritchard. After many years of service on the ETG Steering Committee, including serving as committee chair, John Cuppoletti is rotating off the committee. Carole Liedtke served as our newsletter editor and is also rotating off the committee. We thank both John and Carole for their many contributions to the ETG. Cathy Fuller and I will serve as members of the APS programming committee. Cathy will also serve as vice chair of the ETG and Mike Duffey will serve as the editor of our newsletter.

I encourage you to submit proposals for symposia and featured topics for EB 2003. We will continue to revise the ETG's Abstract Topic Category List to reflect the changing interests of the members of the ETG. Your proposals/suggestions should be sent to me ([kleyman@pitt.edu](mailto:kleyman@pitt.edu)) or to any member of the Steering Committee. Also, I encourage you to send information on other meetings that may be of interest to ETG members, and available postdoctoral and faculty positions, to Mike Duffey ([duffey@buffalo.edu](mailto:duffey@buffalo.edu)). I look forward to seeing you in New Orleans, particularly at the symposium and the featured topics sessions sponsored by the Epithelial Transport Group.

Thomas Kleyman  
Chair, Epithelial Transport Group  
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## ETG Steering Committee

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## EB 2002 Events of Interest to the Epithelial Transport Group

Once again, the representatives of the Epithelial Transport Group, the Renal Physiology Section, the Cell and Molecular Physiology Section, the Comparative Physiology Section, and the Water & Electrolyte Homeostasis Section serving on the APS Program Committee, have pooled and integrated their resources and ideas to come up with a broad offering of topics and subjects of interest to all of us. Here is a sampling of that effort:

### Epithelial Transport Group

#### Symposium:

Epithelial Channels: Regulation by Differentiation and Growth Factors. James Stockand and Stanley Rane. Tuesday, April 23, 3:15 PM - 5:15 PM

#### Featured Topics:

Epithelial Calcium Channels: From Identification to Physiology and Pathophysiology.

Matthias Hediger. Sunday, April 21, 3:15 PM - 5:15 PM

Insights into Epithelial Transport Physiology Gleaned from Interactions with Intestinal Pathogens. Kim Barrett. Monday, April 22, 3:15 PM - 5:15 PM

## **Cell & Molecular Physiology Section**

### **Symposia:**

Viruses, Ion Channels and Ion Transporters. John Russell. Sunday, April 21, 10:30 AM - 12:30 PM

### **Featured Topics:**

Membrane Transport Autoinhibitory Domains. Mark Milanick. Monday, April 22, 8:00 AM - 10:00 AM

Emerging Views of Epithelial Chloride Channels. Nancy Willis and P. Fong. Tuesday, April 23, 8:00 AM - 10:00 AM

Molecular Bases of Local Calcium Signaling. J. Kevin Foskett. Tuesday, April 23, 3:15 PM - 5:15 PM

## **Comparative Physiology Section**

### **Symposium:**

Comparative Models to Understanding Molecular Mechanisms of Solute Transport. Greg Goss. Monday, April 22, 10:30 AM - 12:30 PM

## **Renal Section**

Carl W. Gottschalk Distinguished Lectureship of the APS Teaching of Physiology Section: Regulation of the Na-K-Cl Cotransporter in Secretion and Absorption. Biff Forbush, Yale University School of Medicine. Sunday, April 21, 2:00 PM - 3:00 PM

### **Symposia:**

New Developments in Renal Acid-Based Transport and its Regulation. Mark Knepper and Susan Wall, Monday, April 22, 8:00 AM - 10:00 AM

Disorders of Sodium Transport and Blood Pressure Regulation. Stuart Linas. Monday, April 22, 10:30 AM - 12:30 PM

### **Featured Topic:**

AstraZeneca Young Investigator Award: Formation of Epithelia in the Embryonic Kidney. Jonathan Barasch. Monday, April 22, 10:30 AM - 12:30 PM

## **Water & Electrolyte Homeostasis Section**

Ernest H. Starling Distinguished Lectureship: Genetics, the Kidney and Hypertension.

Richard Lifton, Yale University School of Medicine. Tuesday, April 23, 9:00 AM - 10:00 AM

### **Featured Topics:**

Interfacing Molecular and Integrative Physiology of the Kidney: Na Transporters and Channels in Complex Disease Models. Mark Knepper. Sunday, April 21, 8:00 AM - 10:00 AM

Applications of Physiological Genomics: The Discovery of Novel Genes for Volume and Pressure Regulation. Andrew Greene. Sunday, April 21, 3:15 PM - 5

## **Cross Societal/Sectional Symposium:**

The Sensory Functions of the DEG/ENAC Superfamily of Ion Channels. Dale Benos and Bruce Stanton. Sunday, April 21, 8:00 AM - 10:00 AM

## What is a “Featured Topic” at EB?

From the APS guidelines: “Featured topics are similar to *minisymposia* in that they are pre-formed (prior to the mailing of the Call for Papers) oral sessions including a session title, chairperson and not more than two *featured presenters*. Featured presenters, or invited speakers, may present work not represented by a submitted abstract. All other presentations are selected from the submitted abstracts. Abstract authors choose the preferred *featured topic* topic category from the call for papers as an indication that they are willing to present their research in both an oral and poster format.”

## Call for Symposia and Featured Topics for Experimental Biology 2003

Experimental Biology 2003 will take place in San Diego, from April 12-16. Participating societies include APS, ASPET (Pharmacology and Experimental Therapeutics), ASIP (Investigative Pathology), ASNS (Nutritional Sciences), AAI (Immunology), AAA (Anatomy), and ASBMB (Biochemistry and Molecular Biology).

APS supports one (1) symposium and two (2) Featured Topics offered by the Epithelial Transport Group. Symposia (2.5-3 hours) are funded at \$ 4,000. In addition, APS waives registration fees for the chair and invited speakers. Featured Topics (2.5-3 hours) are funded at \$ 1,000. Registration fees are not waived.

We will follow the same selection process of ETG Symposia and Featured Topics that has worked well this year: a pre-selection followed by an invitation for a formal application. For the pre-selection, please submit only the title (topic) of the ETG Symposium or Featured Topic and the name of the session chair before March 15, 2002 to either Cathy Fuller or Tom Kleyman:

Catherine Fuller, Ph.D.  
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The Steering Committee will then select 3 proposals for further development.

## **Are You Happy with Programming at EB?**

There are many meetings available for ETG members to present their work (DDW, Biophysics, Neuroscience, etc.). The ETG Steering Committee would like to promote any potential changes in programming at EB that will encourage ETG members to submit their work for presentation. If you have suggestions for improvements in programming at EB, such as for more or fewer symposia, more or fewer poster sessions, topics that should be excluded or included, please propose these changes to Steering Committee members and they will pass them on to the APS programming committee.

## **Call for Topics for APS Conferences**

The APS sponsors a number of conferences held in the summer and fall of each year. These are major conferences on very refined topics. Funds are available from the APS for these conferences, although additional funds from other sources are required. ETG members are encouraged to submit their ideas together with possible organizing committee members and speakers to Linda Allen (Membership Services Manager) [lallen@the-aps.org](mailto:lallen@the-aps.org). If you would like to discuss possible topics and support from the ETG, contact any Steering Committee member.

## **Meeting Announcements**

February 8-13, 2002. Keystone Symposium, Biological Response to the Extracellular Matrix. Banff, Alberta. Organizers: David A. Cheresh and Donald E. Ingber. Internet: [www.keystonesymposia.org](http://www.keystonesymposia.org)

April 5 -10, 2002. Keystone Symposium, Microbial - Epithelial - Lymphocyte Interactions in Mucosal Immunity. Breckenridge, Colorado. Organizers: Martin F. Kagnoff and Richard S. Blumberg. Internet: [www.keystonesymposia.org](http://www.keystonesymposia.org)

May 19-22, 2002. Digestive Disease Week, San Francisco, California. Internet: [www.ddw.org](http://www.ddw.org)

August 8-14, 2002. 10th International Conference on Na,K-ATPase and Related Cation Pumps, Elsinore, Denmark. Organized by Copenhagen University, Denmark. Internet: [www.aki.ku.dk/ATPase2002](http://www.aki.ku.dk/ATPase2002)

## Positions Available

**Tenure-Track Faculty Positions:** Cell/Molecular Biologist. The Department of Biomedical Sciences in the College of Veterinary Medicine at Cornell University invites applications for **two** tenure track faculty positions at the level of Assistant, Associate or Full Professor. The successful candidates will be expected to develop extramurally funded biomedical research programs and contribute to departmental initiatives in functional mammalian genomics. Applicants must possess a doctoral degree in a biological field (PhD, DVM, MD, or equivalent) and postdoctoral training. Expertise in cell biology utilizing functional genomics approaches and genetically modified mouse models is highly desirable. For more information see Departmental and University websites:

<http://web.vet.cornell.edu/public/Biosci/Biosci.htm> and <http://www.genomics.cornell.edu>.

Interested individuals should send a letter of interest, curriculum vitae, a summary of research plans and the names of three references to Dr. Mark S. Roberson, c/o Ms. Sue Hawk, Department of Biomedical Sciences, T8-004 VRT, Box 17, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853-6401. Applications should be received no later than November 23, 2001. The screening of candidates will begin as applications are received. Rank and salary will be commensurate with the successful candidate's academic credentials and experience.

**Faculty Position.** The Department of Biomedical Sciences and the Office of Undergraduate Biology invite applications for the position of Lecturer (Ph.D. degree or equivalent) to offer a two-semester, auto-tutorial sequence in INTRODUCTORY BIOLOGY, beginning Aug. 2002. The courses are designed for biology majors, pre-grad, pre-med and pre-vet students seeking a challenging, broad introduction to biology. The auto-tutorial format is offered at Cornell next to the more traditional lecture/lab introductory biology courses. The two self-paced courses attract between 150 and 200 students who are guided through reading, laboratory, and discussion modules by the lecturer and a staff of about twenty teaching assistants. The successful candidate is expected to stay abreast of the intellectual adventures of present-day Biology and to fold these into a vibrant curriculum. Participation in faculty advising of undergraduate bio-majors is highly desired. For further information, please contact Klaus W. Beyenbach (607) 253-3482 or [kwb1@cornell.edu](mailto:kwb1@cornell.edu). Applicants should send a curriculum vitae, a narrative about teaching interests, and contact information for at least three references to the Chair of the search committee: Klaus W. Beyenbach, Department of Biomedical Sciences, VRT 8014, Cornell University, Ithaca, NY 14853. The deadline for receipt of applications is December 20, 2001.