

# EPITHELIAL TRANSPORT GROUP

## NEWSLETTER

Spring, 2003

### MESSAGE FROM THE CHAIR

We will soon be traveling to San Diego for EB 2003, which promises to be an exciting meeting. This is the first year that the ETG is sponsoring awards for the best abstracts submitted for EB03 by a Pre-Doctoral Trainee and by a Post-Doctoral Trainee to an ETG-sponsored Abstract Topic Category. We have received a limited number of applications for our ETG-sponsored awards. If your graduate student or postdoctoral fellow has submitted an abstract to EB03 under an ETG-sponsored category, we encourage your trainee to submit an application for these awards. Application information is included in our newsletter. We are sponsoring a symposium at EB 2003 organized by Lisa Satlin and Gerard Apodaca entitled "Flow/stretch-regulated membrane and ion transport in epithelia." Our two featured topics sessions are "Epithelial Anion Channels: Structure, Form, Function" and "Structure and Regulation of Epithelial Na<sup>+</sup> and K<sup>+</sup> Channels". Christine Bear and Rebecca Hughey will be presenting invited lectures at these sessions. We will be seeking new members for the ETG steering Committee this spring. If you are interested in serving on the ETG Steering Committee, please contact Cathy Fuller or me. I encourage all members of the ETG to submit proposals for Symposia or Featured Topics for EB04, as well as suggestions for the Congress of the International Union of Physiological Sciences (IUPS) that will be held in San Diego, CA, in April, 2005 in conjunction with Experimental Biology. I look forward to seeing you in San Diego.

Cheers,

Tom Kleyman

## ETG EVENTS AT EB 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).

### **ETG Symposium: Flow/Stretch-Regulated Membrane And Ion Transport In Epithelia.**

Organizers: Lisa Satlin, M.D., Mount Sinai School of Medicine, and Gerard Apodaca, Ph.D., University of Pittsburgh School of Medicine. Sunday, April 13, 2003, 8:00-10:00 AM  
Speakers:

Lisa Satlin, M.D., Mount Sinai School of Medicine, "Flow regulation of ion transport in the distal nephron"

Gerard Apodaca, Ph.D., University of Pittsburgh School of Medicine, "Stretch-regulated exocytosis/endocytosis in uroepithelium"

Sheldon Weinbaum, Ph.D., City College of New York, "Mechanotransduction in cells with microvilli and cell processes (ear, kidney, bone cell)"

Mike Welsh, Ph.D., University of Iowa College of Medicine, "Role ENaC, degenerins and sensory transduction"

Eric Schweibert, Ph.D., University of Alabama, Birmingham, "ATP release in kidney epithelium"

**ETG Featured Topics.** Abstracts chosen for these sessions are presented twice: as a poster and in an oral session. Featured Topics sessions are similar to *minisymposia* in that they are oral sessions including a session title, chairperson and two *featured presenters*. All other presentations are selected from the submitted abstracts.

**Epithelial Anion Channels: Structure, Form, Function.** Organizers: Kevin Kirk, PhD, and Catherine Fuller, PhD, Department of Physiology and Biophysics, University of Alabama at Birmingham. Speaker: Christine Bear, PhD, Hospital for Sick Children and University of Toronto. Tuesday, April 15, 8:00-10:00 AM

**Structure and Regulation of Epithelial Na<sup>+</sup> and K<sup>+</sup> Channels.** Organizers: Douglas Eaton, PhD, Department of Physiology, Emory University, and Thomas Kleyman, MD, Department of Medicine, University of Pittsburgh. Speaker: Rebecca Hughey, PhD, University of Pittsburgh. Monday, April 14, 3:15-5:15 PM

**Other Symposia and Featured Topics Sessions of Interest to the Epithelial Transport Group:** See Fall 2002 Newsletter: [http://www.the-aps.org/sect\\_groups/epithelial/index.htm](http://www.the-aps.org/sect_groups/epithelial/index.htm)

## ETG AWARD FOR EXCELLENCE FOR GRADUATE STUDENTS AND FELLOWS ARE STILL AVAILABLE FOR EB03

We have received a limited number of applications for our ETG-sponsored awards. If your graduate student or postdoctoral fellow has submitted an abstract to EB03 under an ETG-sponsored category, we encourage your trainee to submit an application for our new

graduate student or postdoctoral fellow awards. The applications are available at the following web site: [http://www.faseb.org/meetings/eb2003/call/award\\_aps.pdf](http://www.faseb.org/meetings/eb2003/call/award_aps.pdf)

## **CALL FOR SYMPOSIA AND FEATURED TOPICS FOR EXPERIMENTAL BIOLOGY 2004 AND 2005**

Planning is well underway for events at Experimental Biology 2004, which will be held in Washington, DC, April 17-21. The APS will support one (1) symposium and two (2) Featured Topics offered by the Epithelial Transport Group. Symposia (2 hours) are funded at \$ 4,000. In addition, APS waives registration fees for the chair and invited speakers. Featured Topics (2 hours) are funded at \$ 750. Registration fees are not waived.

In the Fall 2002 Newsletter we solicited your input of a title or topic for an ETG Symposium or Featured Topic session and the name of the session chair. We received many exciting and interesting suggestions. Thank you for your help and creativity in developing this forum for research in epithelial transport. At EB03 the ETG Steering Committee will finalize symposia and featured topics sessions for EB04.

Planning is also underway for the 35th Congress of the International Union of Physiological Sciences (IUPS) that will be held in San Diego, CA, March 31 - April 5, 2005 in conjunction with Experimental Biology. We urge our membership to submit suggestions for symposia and featured topic sessions for the EB05/IUPS meeting. Please contact Cathy Fuller, Tom Kleyman, or other members of the ETG steering committee with your suggestions (see their addresses at the end of the Newsletter).

## **MEETING AND COURSE ANNOUNCEMENTS**

**Digestive Disease Week**, May 18-21, 2003, Orlando, FL. Go to: <http://www.ddw.org/>

**2003 FASEB Summer Research Conference: Gastrointestinal Tract X: Physiology and Pathophysiology of GI Epithelia**. July 19-24, 2003. Omni Tucson National Golf Resort and Spa, Tucson, Arizona. Organizers: James R. Goldenring and Jeffrey Matthews. Internet: <http://www.faseb.org/meetings/src>

**First Gordon Research Conference on Cellular Osmoregulation: Sensors, Transducers and Regulators**. August 15-20. Bristol, R.I. Co-Chairs: Janet M. Wood and Karlheinz Altendorf. See Gordon Research Conferences: <http://www.grc.org/scripts/dbml.exe?Template=/Application/apply1.dbm>

**The Third International PharmaConference: Transporters and Drugs**. August 17-21, 2003. Pontresina/Engadin (near St. Moritz), Switzerland. Organizers: Drs. Peter Meier, Robert Burrier, Hitoshi Endou, and Matthias Hediger. Visit: <http://www.pharmaconference.org>

**The 57<sup>th</sup> Annual Meeting and Symposium of the Society of General Physiologists: Biology of Chloride.** September 3-7, 2003. Marine Biological Laboratory, Woods Hole. Jointly sponsored by the European Chloride Channel Working Group. Organizers: Criss Hartzell, Thomas Jentsch, and Michael Pusch. Go to:

<http://www.emory.edu/CELLBIO/SGP/SGP-2003/Cl%20channel%20poster.html>

**APS Conference on Aldosterone and ENaC: From Genetics to Physiology.**

September 10-14, 2003, Banff, Alberta, Canada. Organizers: Daniela Rotin and Douglas C. Eaton. Go to: [http://www.the-aps.org/meetings/aps/mtg\\_confern.htm](http://www.the-aps.org/meetings/aps/mtg_confern.htm)

**APS Physiological Genomics Conference: Understanding Renal and Cardiovascular Function through Physiological Genomics.** October 1-4, 2003, Augusta, GA. See:

[http://www.the-aps.org/meetings/aps/mtg\\_confern.htm](http://www.the-aps.org/meetings/aps/mtg_confern.htm)

**The Forth Beijing-Hong Kong Symposium on Life Sciences - International Symposium On Cell Biology: From Basic Research to Clinical Applications.** October 22-24, 2003. Children's Hospital of Chongqing University of Medical Sciences, Chongqing, P.R.C. Abstract closing date: June 15, 2003. Website:

<http://www.cuhk.edu.hk/ecbrc/meeting.htm>

## **POSITION AVAILABLE**

A **postdoctoral position** is available in the laboratory of **Dr. Alan Yu** to study the role of claudins in paracellular transport. Current interests of the laboratory focus on understanding the molecular basis of paracellular transport in renal epithelial cells, the role of tight junction proteins, their modes of regulation, and their role in human diseases. The candidate would be involved in generating and characterizing cell culture models of claudin over- and underexpression. Techniques used include recombinant DNA engineering, tissue culture, retroviral transduction, RNA interference, immunodetection techniques, confocal microscopy, Ussing chamber electrophysiology, and radiotracer flux studies. Transgenic and knockout mice will be generated as the project progresses. See <http://www-hsc.usc.edu/~alanyu/> for more details. The candidate should have a Ph.D. or M.D. degree, and preferably a strong background in molecular and cellular biology. Individuals without previous postdoctoral experience, as well as those with up to 4 years of postdoctoral research training, are encouraged to apply. Please send or email curriculum vitae and three references to: Dr. Alan S. L. Yu, University of Southern California Keck School of Medicine, 2025 Zonal Avenue, RMR 406, Los Angeles, CA 90033 Tel: (323) 442 1331 Fax: (323) 442 3093 email: [alanyu@usc.edu](mailto:alanyu@usc.edu)

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