Research Symposium

Membrane Trafficking and Secretion in Digestive Epithelia
Wednesday, April 13th. 10:30 AM-12:30 P.M. Room 146B
Chairs: John Williams (Michigan) and Guy Groblewski
Raymond Frizzell, University of Pittsburgh
Thaddeus Stappenbeck, Washington University
Sergio Grinstein, Hospital for Sick Children (Toronto)
Guy Groblewski, University of Wisconsin

Research Symposium

Fetal/Neonatal Origins of GI Disease
Wednesday, April 13, 2011 3:15-5:15 P.M. Room 146B
Chairs: Kevan Jacobson and Erika Claud
Sheila Innis, University of British Columbia
W. Allan Walker, Harvard/MGH
Erika Claud, University of Chicago
Kevan Jacobson, University of British Columbia

Featured Topic Symposium

New Insights on Roles of Extracellular Mediators in Intestinal Epithelial Restitution
Tuesday, April 12, 2011 10:30 AM-12:30 PM 145B
Chair: Xiao-Di Tan
Christoph Becker (Friedrich-Alexander University)
Xiao-Di Tan (Northwestern)
and selections from submitted abstracts

Featured Topic Symposium

Xenobiotic Transporters in the Liver
Wednesday, April 13, 2011 8:00-10:00 AM 154A
Chair: Bruno Hagenbuch
Bruno Hagenbuch, University of Kansas
Bruno Stieger, University Hospital, Zurich
and selections from submitted abstracts
The Gastrointestinal and Liver Physiology Section Horace W. Davenport Distinguished Lectureship honors one of the most distinguished members of the Gastrointestinal & Liver Physiology Section and past APS president Horace W. Davenport. This is the most prestigious award of the APS Gastrointestinal & Liver Physiology Section. The award recognizes distinguished lifetime achievement in gastrointestinal and liver physiological research, including accomplishments in research, teaching, training and activities within the APS.

2011 Horace W. Davenport Distinguished Lecturer of the GI and Liver Section

Tuesday, April 12th. 3:15 -5:15 P.M. Room 146A

James L. Madara, M.D.

Abstracted from the nomination letter: "Most have at least some familiarity with Dr. Madara's contributions to GI physiology as well as his incredible (perhaps unmatched) record as a mentor. This is because of the exceptional training he provided to those in his lab as well as generosity in sharing discoveries with trainees and promoting the development of their own independent research programs. In addition, Dr. Madara is 1. a major contributor to ultrastructural definition of intestinal epithelium; 2. one of two investigators (with K. Barrett, 2006 Davenport Awardee) that established and popularized the T84 model after K. Dharmsathaphorn's untimely death; 3. a primary contributor to our understanding of structural and functional relationships between the tight junction and actin cytoskeleton; 4. co-discoverer (with J. Pappenheimer) of physiological tight junction regulation; 5. a leader in defining effects of bacterial toxins on epithelial function; 6. a major contributor to our understanding of mechanisms and regulation of epithelial chloride secretion; 7. creator of the first in vitro model for neutrophil-epithelial interactions; and 8. a pioneer in the study of epithelial interactions with probiotic organisms."

COME TO EXPERIMENTAL BIOLOGY 2011

It’s not too late to register for EB2011 in beautiful Washington, DC.

The science will be great! Six societies will be represented and will span the scientific disciplines. There are also great networking and career development opportunities.

and,


ENJOY DC, SEE THE CHERRY BLOSSOMS, HECKLE CONGRESS
Congratulations to Recipients of the 2011 APS Awards*
Hariom Yadav (NIDDK)
Ji Hye Seo (Harvard/BIDMC)
Heather O'Leary (West Virginia University)

Congratulations to 2011 GIL Section Takeda Research Recognition Awardees*
Graduate Students
Sam Nalle (University of Chicago)
Jessica Otis (University of Wisconsin-Madison)
Ketija Touw (Indiana University School of Medicine)

Postdoctoral Fellow
Wei Zhong (University of North Carolina at Greensboro)

Junior Faculty
Veronique Douard (University of Medicine and Dentistry, New Jersey)

Congratulations to our APS New Investigator of the Year*
Declan McCole (University of California, San Diego)

Honorable Mention to*
Amal Dutta, Yukihiro Yokoyama, and Jamilur Talukder

*Awardees and honorable mention recipients get free admission to the award-winning GIL Section Banquet!

GI and Liver Section Trainee Symposium
Monday, April 11th. 5:45 - 8:00 P.M. Convention Center (Room to be announced - stay tuned)

In what we can now proudly refer to as symposium after symposium after symposium (it’s the third year), we are pleased to offer a special GIL Trainee Poster Symposium to showcase the work of our trainees! The symposium will bring together undergraduate students, graduate students, and postdoctoral fellows to increase interactions between trainees and experts in the field of gastrointestinal research. Included in this symposium is a competition for extra monetary awards for trainees who did not receive Research Recognition Awards (above). In addition, the recipients of Research Recognition Awards will be presenting their work as posters and there will be a brief oral symposium. Please plan on coming to the symposium to support our trainees!

All trainees who present posters (except those who received Research Recognition Awards) are eligible for the new GIL Predoctoral and Postdoctoral Poster Awards. These awards are designed to recognize a predoctoral (undergraduate or graduate) trainee and a postdoctoral trainee who are engaged in gastrointestinal and liver research. The awards are given based on poster presentations at the GIL Trainee Poster Symposium. This presentation is in addition to the regular EB poster presentation. The final decision of awards will be based on the quality of research, a short poster presentation, and responses to several questions. Awardees will be recognized at the EB11 GI and Liver Section Banquet and Business Meeting, to be held April 12th, 2011.
don’t forget the great sessions by other APS sections and EB societies

The Walter B. Cannon Memorial Award Lecture
Saturday, April 9th. Roberto Bolli The APS Opening Reception directly follows the lecture.

Hugh Davson Distinguished Lectureship of the APS Cell & Molecular Physiology Section
Sunday, April 10th. Dennis Brown

P2Y Receptors: Autocrine/Paracrine Regulators of Cell Physiology
Monday, April 11th. Paul Insel and George Dubyak

Ubiquitin and Ubiquitin-like Modifications that Regulate Ion Channels in Epithelial Cells
Monday, April 11th. Amrita Kuman and My Helms

Mesenchymal and Endothelial Progenitor Stem Cells: Novel Treatment Strategies for Lung Injury
Monday, April 11th. Michael Matthay and Jahar Bhattacharya

Epithelial Ion Channel Trafficking
Sunday, April 10th. Michael Butterworth and Alexander Staruschenko

Electrolytes, Carbohydrates and Fats: Epithelial Cells Making and Delivering Milk
Tuesday, April 12th. Bruce Schultz and Margaret Neville

Ammonia Transport Processes
Tuesday, April 12th. Roger Worrell and David Weiner

Molecular Imaging in Renal Physiology
Monday, April 11th. Pablo A. Ortiz and Judith Blaine

Molecular Diversity in the Regulation of Lung Tight Junctions
Tuesday, April 12th. Michael Koval and Kwang-Jin Kim

Herbert Tabor/Journal of Biological Chemistry Lectureship
Sunday, April 10th. George R. Stark. Genetic Analysis of Signaling Pathways in Human Cells

Fritz Lipmann Lectureship
Monday, April 11th. Arthur E. Johnson. Membrane Protein Biogenesis

Plenary Lecture NIH and the Biomedical Research Community: Opportunities and Concerns
Monday, April 11th. Francis S. Collins.

ASIP Presidential Symposium
Monday, April 11th. C. Parkos. Innate and Adaptive Immunity at the Mucosal Barrier

Liver Pathobiology Symposium
Sunday, April 10th. D.C. Hixson, D. French. Hepatic Stem Cells: A Blessing or a Curse from Prometheus

Monitoring and Managing: Epithelial Interactions with the Microbiota
Sunday, April 10th. T. Stappenbeck, A.S. Neish

Command and Control: Dynamics of Hepatobiliary Proliferation and Differentiation
Sunday, April 10th. J. Luyendyk, U. Apte

Cell Junctions and Signaling
Monday, April 11th. A. Ivanov, N. Louis

Host-Microbial Interactions and Inflammation
Tuesday, April 12th. R. Jones, B. McCormick

Pathobiology of Liver Injury and Fibrosis
Tuesday, April 12th. M. Rojkind, C. Gandhi
The Individual Development Plan – Plotting a Career Trajectory
Sponsored by the Trainee Advisory Committee
Wednesday, April 13, 10:30-12:30PM, Room 147B

Individual Development Plans (IDPs) provide a planning process that helps identify both career objectives and professional development needs. IDPs have been successfully incorporated into the performance review process by many business organizations. Creation of an IDP can be especially helpful in career planning for graduate students and postdoctoral fellows in the sciences. Participants in this workshop will gain an understanding of how to create their own IDPs and will be provided tools and resources to get started. They will begin the process of self-assessment, learn how to effectively explore career options, become familiar with principles for effective goal setting, and discuss how to find and work with mentors to implement their plan. As part of the career exploration process, participants will have the opportunity to get inside information about a wide variety of career fields by meeting in small groups with scientists who work in diverse environments including academic medical centers, major research universities, small liberal arts college, the military, industry, and government.

Other trainee-related EB symposia
Communicating Science as a New Career Path: Physiology Beyond the Lab
Saturday, April 9 from 3:00-5:00PM in Room 154A

New Opportunities in Non-traditional Academic Positions
Monday, April 11 from 3:15-5:15PM in Room 146B

Work/Life Balance: Every Choice Matters
Wednesday, April 13 from 8:00-10:00AM in Room 146C

Contact Karen Edelblum (karen.edelblum@gmail.com) if you have any questions.

How to Be an Advocate: A Workshop for Scientists
Saturday, April 9, 1-3 PM Convention Center Room 147A

Join the members of the APS Science Policy Committee to learn how to be an effective advocate for science. This workshop will address what scientists can do to encourage federal support for research and what you need to understand about the budget process. You will also learn how to schedule a meeting with your Member of Congress while you are in Washington. Experienced science advocates will be available to guide small group discussions about advocacy and answer questions about meeting with Members of Congress.

For more information on planning ahead to visit Capitol Hill during EB, see the APS Science Policy website: www.the-aps.org/pa/advocate/AdvocateforScience.htm
The APS PIC is sponsoring a Symposium at EB 2011 entitled "Stem Cells in Physiology and Drug Discovery" (chaired by Magdalena Alonso-Galicia, Ph.D. and Cheryl Watson, Ph.D.) on Sunday, April 10, at 8:00 – 10:00AM in the Convention Center, Room 145A. Recent breakthroughs have allowed the generation of induced pluripotent stem cells (iPS cells) from somatic cells which maintain all the potential of embryonic stem cells without using embryos, eliminating ethical concerns. These findings have generated excitement and interest in the biomedical research community as well as the pharmaceutical industry. The first stem cell trial in the US has recently been approved by the FDA for severe spinal cord injury. Beyond therapeutics, the promise of using differentiated human stem cells in drug discovery as disease relevant and toxicology models is maturing. Stem cells and cell lines derived from iPS cells of patients can accelerate the development of existing targets for different diseases and provide opportunity to explore innovative treatments in regenerative medicine. This symposium will review the current use of pluripotent stem cells as enabling technology in drug discovery as well as provide examples of therapeutic approaches.

In addition, the APS Translational Physiology Group and the PIC are co-sponsoring a Symposium entitled "The Cardiac Sarcomere as a Therapeutic Target" (chaired by John Liles, Ph.D. and Kelly R. Pitts, Ph.D.) on Wednesday, April 13, at 3:15 – 5:15PM in the Convention Center, Room 145A. The cardiac sarcomere is the core structure responsible for active mechanical heart function and dynamics. A better understanding of the interactions at the crossbridge level has led to the discovery of novel pathways and to the development of new clinical targets. In this symposium, key opinion leaders in the field will a) review the sarcomere components associated with regulating basic cardiac function; b) discuss the effect of calcium signaling on sarcomere proteins; c) address the clinical consequences of certain genetic mutations of the sarcomere; and d) review the successes and challenges that sarcomeric modulators are experiencing in the clinic. Attendees will gain an appreciation for the translational nature of studying and targeting the cardiac sarcomere.

The PIC Novel Disease Model Award will be granted to each a graduate student and a postdoctoral fellow who submit the best abstracts at EB 2011 that describe a novel disease model. The model can be in vitro or in vivo but should clearly emphasize the potential utility of the system for future research related to a disease. The award is $500 for the graduate student and $800 for the postdoctoral fellow categories, respectively, is sponsored by the PIC and the APS, and will be presented at the APS Business Meeting on Tuesday, April 12, 5:45 – 7:00PM in the Convention Center, Ballroom B.

You're invited! Come meet, eat and socialize with your fellow Physiologists who are working in the corporate, industrial, or academic sector. The 11th Annual Physiologists in Industry Committee Mixer at EB 2011 is on Sunday, April 10, 7:00 – 8:15 pm in the Grand Hyatt Washington, Penn Quarter A Room. Free Hors d’oeuvres will be available along with a cash bar and information on the roles of Physiologists in Industry. This is a great opportunity to network with industry and academic APS members alike – email Shaila for details!

The APS PIC meeting is scheduled for Monday, April 11, 2:30 – 4:00PM in the Convention Center, Room 302. 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 there are issues to be brought to the attention of the PIC.
ATTEND THE GI AND LIVER SECTION BANQUET ON TUESDAY, APRIL 12, 2011

GIL Section Banquet
more details at www.med.uc.edu/mcp/banquet/

WHERE: Marrakesh Restaurant (www.marrakesh.us/)
617 New York Ave N.W., Washington, D.C., 20001
Tel: (202) 393-9393

WHEN: Tuesday, April 12, 2011 7:00-10:00 PM

COST: $60 for Faculty and Guests (Member or Nonmember)
$30 for Trainees (Undergraduate/Graduate Students or Postdoctoral Fellows)
$20 for GI/Liver Section Travel Award Applicants
$ 0 for Awardees (priceless)

MENU:
Hope you’re hungry….
Three-Salad Platter (eggplant, cucumbers, carrots)
B’Stella (layered pie with chicken)
Chicken with Lemon and Olives
Marinated Berber Beef Shish Kebab
Couscous Grand Atlas with Vegetables
Dessert
Red and white libations provided with dinner….
(vegetarian menu available)

HOW: Order tickets online at: https://www.the-aps.org/cgi-bin/ecom/eticket/ticket_list.cgi

Deadline for ticket purchase is March 1, 2011.

Questions:
Bruno Hagenbuch, GIL Banquet Organizer
bhagenbuch@kumc.edu, 913-588-0028.
Catherine Ohnmacht, APS Sections Administrator
cohnacht@the-aps.org, 301-634-7976

PROGRAM:
Business meeting led by Section Chair Marshall ("Chip") Montrose
Awards ceremony
After-dinner speech
Jerry Turner, 2011 Takeda Distinguished Research Award recipient
“Welcome to the tea party! You’ll laugh, you’ll cry, you’ll kiss your funding goodbye.”
Tuesday Poster Topics:

Mechanisms of Intestinal Nutrient, Water and Electrolyte Transport
Barrier Function and Repair
New Insights on Roles of Extracellular Mediators in Intestinal Epithelial Restitution
Gastrointestinal Nutrient Sensors
Gastrointestinal Motility
GI Hormones, Peptides and Receptors
Growth Factors, Proliferation, Differentiation and Apoptosis
Pancreatic Physiology and Pathophysiology

Wednesday Poster Topics:

Alcoholic and Nonalcoholic Fatty Liver Disease
Liver Physiology and Pathophysiology
Xenobiotic Transporters in the Liver
Hepcidin and Iron Homeostasis
Intestinal Inflammation and Phthophysiology
Immunology and Microbiology of the Gut
Gastrointestinal Cancer Metastasis
Gastrointestinal Development and Disease
Membrane Trafficking and Secretion in Digestive Epithelia