LAKE CUMBERLAND BIOLOGICAL TRANSPORT GROUP 2012

SUNDAY JUNE 17 – TUESDAY JUNE 19

CHAIR: Eleanor Lederer
VICE CHAIR: Silvia Dossena
CHAIR EMERITUS: Charity Nofziger

SUPPORTED BY:
Greetings and Registration

Sunday June 17th
Pumpkin Creek Lodge

5:00 – 6:30 PM (Central Daylight Time)

Bring your family/coworkers and something to share
(fruit, vegetables, cheese, dessert or entrée)

Beverages & table service will be provided
SUNDAy, June 17

6:30 – 6:40 PM  Welcoming Remarks.  Eleanor Lederer

Session Chair:  Markus Paulmichl and Melinda Engevik

6:40 – 7:10 PM  Amy Engevik  University of Cincinnati
              “Gastric Sonic Hedgehog Acts as a Chemoattractant for Macrophages During Ulcer Repair”

7:10 – 7:40 PM  Mike Schumaker  University of Cincinnati
              “Gastric Sonic Hedgehog Acts as a Macrophage Chemoattractant During the Immune Response to Helicobacter pylori Infection”

7:40 – 8:10 PM  Rui Feng  University of Cincinnati
              “Indian Hendgehog signaling mediates gastrin-induced proliferation contributing to epithelial regeneration during wound healing”

8:10 – 8:30 PM  Break

Session Chair:  Eric Delpire and Roger Worrell

8:30 – 9:00 PM  Frank Potet  Vanderbilt University
              “Molecular Basis of NaV1.5 Calcium Modulation”

9:00 – 9:30 PM  Sabina Kuperschmidt  Vanderbilt University
              “Novel Approaches to Therapy for hERG Related Arrhythmias”

9:30 – 10:00 PM  Jose Ponce-Coria and Eric Delpire  Vanderbilt University
              “Are monomers or dimers the functional units of SPAK?”

LAKE CUMBERLAND BIOLOGICAL TRANSPORT GROUP 2012
SESSION LOCATION: PUMPKIN CREEK LODGE
**MONDAY, JUNE 18 (MORNING)**

Session Chair: *Eleanor Lederer and Silvia Dossena*

7:45 – 8:30 AM  **Breakfast (Pumpkin Creek Lodge)**

8:30 – 9:00 AM  James Clack, Indiana University  
“Preliminary studies of incremental and decremental photoresponses elicited from dark- and light-adapted vertebrate rods”

9:00 – 9:30 AM  Jinlong Ding, Jose-Ponce Coria and Eric Delpire, Vanderbilt University  
“Role of KCC3 in the hereditary sensory motor neuropathy: HSMN/ACC”

9:30 – 10:00 AM  Rene Raphemot, Vanderbilt University  
“Small-molecule inhibition of the diuretic response in mosquitoes”

10:00 – 10:15 AM  **Break**

Session Chair: *Bonnie Blazer-Yost and Manoocher Soleimani*

10:15 – 10:45 AM  Stephanie Flail, Indiana University  
“Development of therapies to treat polycystic kidney disease”

10:45 – 11:15 AM  Shanta Lewis, Indiana University  
“Effects of Carbon Nanotubes on Transepithelial Electrical Resistance in Barrier Epithelial Cells”

11:15 – 11:45 AM  Peter K Lauf and Norma C Adragna, Wright State  
“Implications of the presence of chelerythrine binding sites on the human Na/K pump”

11:45 AM  **GROUP PHOTO: PUMPKIN CREEK LODGE**

5:00 – 6:15 PM  **FAMILY DINNER: “THE LODGE” dining room**

**MONDAY, JUNE 18 (EVENING)**

Session Chair: *Norma Adragna and Jerod Denton*

6:30 – 7:00 PM  Silvia Dossena, Paracelsus Medical University  
“Integrins and ICln: Role in Regulatory Volume Decrease”

7:00 – 7:30 PM  Emanuele Bernardinelli, Paracelsus Medical University  
“Operons in C. elegans: a tool to identify functionally related proteins”
7:30 – 8:00 PM  Giada Scantamburlo  Paracelsus Medical University
"LIPT2, a new interacting partner for ICln"

8:00 – 8:15 PM  Break

**Session Chair:**  *Charity Nofziger and Syed Jalal Khundmiri*

8:15 – 8:45 PM  Rachel Grisham, Syed Jalal Khundmiri, and Eleanor Lederer  University of Louisville
"Role of SNARE proteins in Npt2a trafficking"

8:45 – 9:15 PM  Rebecca Murray, Syed Jalal Khundmiri, Eleanor Lederer, and Barbara Clark  University of Louisville
"PTH regulation of Npt2a mRNA"

9:15 – 9:45 PM  Robert Parker  Wright State
"Secretagog Modulation of Acid Secretion in the Distal Colon"

**TUESDAY, JUNE 19 (MORNING)**

**Session Chair:**  *Jim Clack and Peter Lauf*

7:45 – 8:30  Breakfast (Pumpkin Creek Lodge)

8:30 - 9:00AM  Simone Vanoni  Paracelsus Medical University
"Transcriptional Regulation of Pendrin"

9:00 – 9:30 AM  Manoocher Soleimani  University of Cincinnati
"Double Knockout of Pendrin and NCC Causes Severe Volume Depletion, Renal Failure and Metabolic Alkalosis: A Novel Target for Diuretic Therapy"

9:30 – 10:00 AM  Dan Halm  Wright State
"Role of the BK channel in Colonic K Secretion"

10:00 – 10:20 AM  Break

**Session Chair:**  *Dan Halm and Sabina Kuperschmidt*

10:20 – 10:50 AM  Norma C Adragna and Peter K Lauf  Wright State
"Significance of KCC2a expression in a human lens epithelial cell culture"

10:50 – 11:20 AM  Neelima Sharma, Peter K Lauf and Norma C Adragna  Wright State
"Effect of Apelin on Vascular Smooth Muscle Cell K-Cl Cotransport"
11:20 – 11:40 AM  Syed Jalal Khundmiri  University of Louisville
“Role of AT1R in regulation of Na-K ATPase by ouabain”

11:40 – 12:10 PM  Michael Merchant  University of Louisville
“Glucose modified kinin regulation of ouabain sensitive Na+ transport in renal tubular cells.”

**TUESDAY, JUNE 19 (EVENING)**

**Session Chair:**  Peter Lauf and Norma Adragna

7:00 – 7:30 PM  Roger Worrell  University of Cincinnati
“NHE2, NHE3 & cH/K-ATPase in colonic ammonium transport”

7:30 – 8:00 PM  Melinda Engevik  University of Cincinnati
“NHE3-deficiency Alters Gut Microbiota Community Dynamics”

8:00 – 8:30 PM  Break

8:30 – 9:00 PM  **BUSINESS MEETING**  
**TREASURER’S REPORT:**  Roger Worrell  
**ELECTIONS:**  Eleanor Lederer  
**CLOSING REMARKS:**  Silvia Dossena

**FUTURE MEETINGS:**

2013:  Sunday June 16 - Tuesday June 19  Chair: Silvia Dossena; Vice Chair: TBA
2014:  Sunday June 22 – Tuesday June 24  Chair: TBA; Vice Chair: TBA