

LAKE CUMBERLAND BIOLOGICAL TRANSPORT GROUP 2011

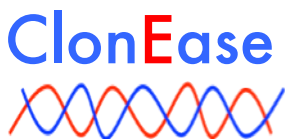
SUNDAY JUNE 19 – TUESDAY JUNE 21

CHAIR: Charity Nofziger
VICE CHAIR: Eleanor Lederer
CHAIR EMERITUS: Stephen Kempson

SUPPORTED BY:



made to measure



SARSTEDT

Ihr Partner weltweit für Medizin und Wissenschaft



Biosciences

INSTITUTE OF PHARMAKOLOGIE & TOXIKOLOGIE



PARACELSUS
MEDIZINISCHE PRIVATUNIVERSITÄT



Promega

Greetings and Registration
Sunday June 19th
Pumpkin Creek Lodge

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

Bring your family/colleagues and something to share
(fruit, vegetables, cheese, dessert)

An entrée (ham/turkey sandwiches or the like, beverages &
table service will be provided)



LAKE CUMBERLAND BIOLOGICAL TRANSPORT GROUP 2011

SESSION LOCATION: PUMPKIN CREEK LODGE

SUNDAY, JUNE 19

6:30 – 6:40 PM Welcoming Remarks. *Charity Nofziger*

Session Chair: *Markus Paulmichl and Melinda Engevik*

6:40 – 7:10 PM **Functional effects of carbon nanotubes on airway epithelial cells.** Amiraj Banga¹, Frank A. Witzmann² and Bonnie L. Blazer-Yost^{1,2}. ¹IUPUI, Indianapolis, IN, USA; ²IUSM, Indianapolis IN, USA

7:10 – 7:45 PM **On the osmotic and volume regulatory phases in jelly fish nematocytes.** Marino A, La Spada G, Morabito R, Lauf PK, Adragna NC. University of Messina, Italy and Wright State University, Dayton OH, USA.

7:45 – 8:20 PM **On the determination of K influx pathways in rat aortic vascular smooth cells.** Sharma N, Lauf PK, Adragna NC. Wright State University, Dayton OH, USA

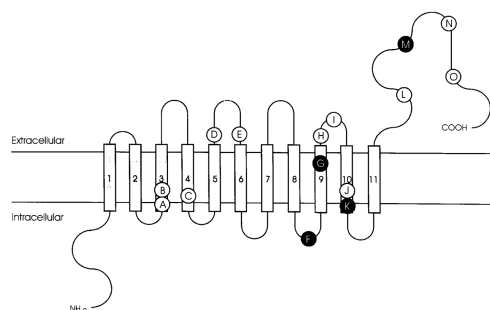
8:20 – 8:35 PM Break

Session Chair: *Ken Gagnon and Roger Worrell*

8:35 – 9:10 PM **Peroxisome Proliferator Receptor γ Agonists Alter Electrolyte Transport Across Porcine Vas Deferens Epithelia.** Jacob Hull, Qian Wang, Florence Wang, Vladimir Akoyev & Bruce D. Schultz. Kansas State University, Manhattan KS, USA

9:10 – 9:45 PM **Characterization of Ion Transport in the T84 Colonic Cell Line for Nanotoxic Analysis.** Shanta Lewis, Amiraj Banga and Bonnie L. Blazer-Yost. IUPUI, Indianapolis IN, USA

9:45 – 10:20 PM **Divergent signaling for adrenergic activated K and Cl secretion.** Dan Halm. Wright State University, Dayton OH, USA.



MONDAY, JUNE 20 (MORNING)

Session Chair: *Eleanor Lederer*

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

8:30 – 9:05 AM **The betaine transporter in kidney and liver and the different roles for betaine in these tissues.** Steve Kempson & Niels C. Danbolt. IUSM, Indianapolis IN, USA

9:05 – 9:40 AM **Mapping the regions of OSR1 kinase involved in its activation.** Kenneth Gagnon and Eric Delpire. Vanderbilt University, Nashville TN, USA

9:40 – 10:15 AM **Modeling dark- and light-adapted rod photoresponses using non-classical transduction models.** Jim Clack. IUPUC, Columbus IN, USA

10:15– 10:30 AM Break

Session Chair: *Bonnie Blazer-Yost and Steve Kempson*

10:30 – 11:05 AM **Intestinal Ammonium transport: Rhesus Glycoprotein compenstates for lack of NKCC1 in Mouse.** Roger Worrell. University of Cincinnati College of Medicine, Cincinnati OH, USA

11:05 – 11:40 AM **Identification of a new apical chloride transporter in epithelial tissues.** Manoocher Soleimani. University of Cincinnati College of Medicine, Cincinnati OH, USA KY, USA

11:40 AM **GROUP PHOTO: PUMPKIN CREEK LODGE**

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

MONDAY, JUNE 20 (EVENING)

Session Chair: *Manoocher Soleimani and Silvia Dossena*

6:30 – 7:05 PM **Activation of chloride channels in the mpkCCD_{cl4} renal cell line in response to lysophosphatic acid (LPA).** Stephanie M. Flaig and Bonnie L. Blazer-Yost. IUPUI, Indianapolis IN, USA

7:05 – 7:40 PM **Cholesterol Trafficking in HK Renal Proximal Tubule Cells by STARD5.** Barbara J. Clark, Renate K Meier, Syed J Khundmiri, Eleanor D. Lederer. University of Louisville School of Medicine, Louisville KY, USA

- 7:40 – 8:15 PM **Ouabain regulates Na-K ATPase through an AT1R mediated mechanism.** Syed Khundmiri and Michael Merchant. University of Louisville, Louisville
- 8:15 – 8:50 PM Break
- Session Chair: *Barbara Clark and Amy Banga*
- 8:50 – 9:25 PM **Community Dynamics in the Mouse Gut Microbiota: Role of NHE3.** Melinda Engevick and Roger Worrell. University of Cincinnati College of Medicine, Cincinnati OH, USA
- 9:25 – 10:00 PM **Helicobacteria and pH sensing.** Amy Engevick and Roger Worrell. University of Cincinnati College of Medicine, Cincinnati OH, USA
- 10:00 – 10:35PM **TBA.** Najma Javed. Ball State University, Muncie IN, USA.

TUESDAY, JUNE 21 (MORNING)

- Session Chair: *Charity Nofziger*
- 7:45 – 8:25 Breakfast (Pumpkin Creek Lodge)
- 8:25 – 9:00AM **Role of AMPK in Npt2a function.** Eleanor Lederer. University of Louisville School of Medicine, Louisville KY, USA
- 9:00 – 9:35 AM **Development of novel KCC3 mouse models to study ACCPN, a degenerative peripheral neuropathy disorder.** Jinlong Ding, Jose Ponce-Coria, and Eric Delpire. Vanderbilt University, Nashville TN, USA
- 9:35 – 10:10 AM **Evidence for K-Cl cotransporter heterodimerization.** Jose Ponce-Coria, Jinlong Ding, and Eric Delpire. Vanderbilt University, Nashville TN, USA
- 10:10 – 10:25 AM Break
- Session Chair: *Eric Delpire and Jim Clack*
- 10:25 – 11:00 AM **PENDRIN DIMERIZATION: FUNCTIONAL IMPLICATIONS.** Silvia Dossena, Simona Rodighiero, Emanuele Bernardinelli, Charity Nofziger, Maria Elena Silva, and Markus Paulmichl. Paracelsus Medical University, Salzburg Austria
- 11:00 – 11:35 AM **IL4 and Pendrin.** Simone Vanoni¹, Adam Lee², Charity Nofziger¹, Valeria Vezzoli^{1,3}, Silvia Dossena¹, Elena Silvia¹, Bob Diasio² and Markus Paulmichl¹. ¹Paracelsus Medical University, Salzburg Austria, ²Mayo Clinic, Rochester MN, USA, ³IRCCS Milan Italy

TUESDAY, JUNE 21 (EVENING)

Session Chair: *Peter Lauf and Norma Adragna*

- 7:00 – 7:35 PM **Stripping Spider Venom: Fractions of Tarantula Cubensis Venom and Their Effect on Vasopressin-Stimulated Ion Transport.** Susanne Lukas¹, Volker Neu³, Charity Nofziger¹, Bernd Follrich², Georgia Wagner², Florian Fritsch², Christian Huber³ and Markus Paulmichl¹. ¹Paracelsus Medical University, Salzburg Austria, ²Richter Pharma AG, Wels Austria, ³University of Salzburg, Salzburg Austria
- 8:10 – 8:45 PM **Effect of curcumin on the swelling-activated chloride current.** Sonja Kössler, Silvia Dossena, Charity Nofziger, Elena Silva, Martin Jakab, and Markus Paulmichl. Paracelsus Medical University, Salzburg Austria
- 8:45 – 9:20 PM **The effect of polyamideamine polymers on the swelling activated chloride current** Elisabeth Grabmayer¹, Silvia Dossena¹, Charity Nofziger¹, Maria Elena Silva¹, Simone Vanoni^{1,2}, Elisabetta Ranucci², Paolo Ferruti², and Markus Paulmichl¹. ¹Paracelsus Medical University, Salzburg Austria, ²University of Milan, Milan Italy
- 9:20 – 9:35 PM Break
- 9:35 – 10:30 PM BUSINESS MEETING
TREASURER'S REPORT: *Roger Worrell*
ELECTIONS: *Charity Nofziger*
CLOSING REMARKS: *Eleanor Lederer*

FUTURE MEETINGS:

- 2012: Sunday June 17 – Tuesday June 20 Chair: Eleanor Lederer; Vice Chair: _____
2013: Sunday June 16 – Tuesday June 19 Chair: _____; Vice Chair: TBA
2014: Sunday June 22 – Tuesday June 24 Chair: TBA; Vice Chair: TBA

