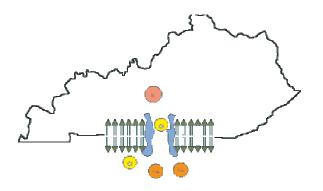
2015 Lake Cumberland Biological Transport Group



# Let's Celebrate 50 years with our Pot Luck and live music: <u>Classic Rock</u>!

**RP and Tornado Alley** 



from Nashville, TN.

Sunday, June 21: 5-00 - 6:30 Pot-Luck 6:30 - 8:30 Music

> Note the Change in Venue: at the Lake Cumberland State Dock!

### Lake Cumberland Biological Transport Group June 21 - June 24, 2015 Pumpkin Lodge

Sunday June 22 – Evening "Remember tonight... for it is the beginning of always" Dante Alighieri

- 5:00 6:30 Pot Luck (Bring your favorite dish! <u>New location for Celebration: State Dock</u>)
   6:30 8:30 *RP and Tornado Alley* (Classic Rock Band Nashville)
- 8:45 9:00 **Pumpkin Lodge/Opening Remark** Eric Delpire Roger T. Worrell
- 9:00 9:30Mechanisms of Cerebral Bleeding Following Thrombolysis for Ischemic Stroke:<br/>Implications for Treatment.<br/>Darryl R. Peterson and Ernest J. Sukowski<br/>Department of Physiology and Biophysics, Chicago Medical School, North Chicago.
- 9:30 10:00 Secretory activation in colon of BK channel knockout mice. Dan Halm Department of Neuroscience, Biology, and Physiology, Wright State University, Dayton, OH.

## Monday June 22 - Morning"The brain is just the weight of God..." Emily DickinsonCHAIR: Dan Halm

- 8:30 9:00 Alteration of TRPV4 in an animal model of hydrocephalus. Joon (Simon) Shim, Ellen Maue, Shehab Ahmed, John Watson, Paul Territo, and Bonnie Blazer-Yost. Department of Biology, Indiana University-Purdue University Indianapolis.
- 9:00 9:30Characterization of ion transport in a choroid plexus cell line.<br/>Shehab Ahmed and Bonnie Blazer-Yost<br/>Department of Biology, Indiana University-Purdue University Indianapolis.
- 9:30 10:00
   Cation-chloride cotransporters and aquaporins in CSF secretion and K<sup>+</sup> homeostasis by choroid plexus epithelial cells: the unanswered questions.
   F. Javier Alvarez-Leefmans, J. Crum, D. Cha, P. Patyal, and F. Alvarez
   Department of Pharmacology & Toxicology, Boonshoft School of Medicine, Wright State University, Dayton.

#### 10:00 -10:30 **Refreshment Break** CHAIR: Eleanor Lederer

"Let your speech be always with grace, seasoned with salt" Colossians IV.6.

- 10:30 11:00Generation of a KCC3-T991A Knock-in mouse using CRISPR.<br/>Eric Delpire and Bianca Flores<br/>Department of Anesthesiology, Vanderbilt University School of Medicine, Nashville, TN
- 11:00 11:30 Effect of salt on blood pressure in aging.
   Syed Jalal Khundmiri, Sathnur B. Pushpakumar, Corey J. Ketchem, Utpal Sen, Eleanor Lederer Departments of Medicine and Physiology, University of Louisville, Louiville.

#### Monday afternoon - free

5:45 pm **Dinner** 

Monday June 22 – Evening<br/>CHAIR: Norma Adragna"Some beautiful paths can't be discovered without getting lost." Erol Ozan

- 8:00 8:30 **Imaging cancer metastasis with the sodium-iodide symporter (A tale of two rats)** Kenneth Gagnon Department of Anatomy and Cell Biology, University of Saskatchewan, Saskatoon, Canada.
- 8:30 9:00 Trek to the Apical Membrane: NpT2a and NHERF1 Corey J. Ketchem<sup>1,2,3</sup>, Syed Jalal Khundmiri<sup>1,2,3</sup>, Adam E. Gaweda<sup>2</sup>, Rebecca Murray<sup>3</sup>, Barbara J. Clark<sup>4</sup>, Edward J. Weinman<sup>5,6</sup>, Eleanor D. Lederer<sup>1,2,3</sup>
   <sup>1</sup>Robley Rex VA Medical Center, Louisville; <sup>2</sup>Department of Medicine, University of Louisville, Louisville; <sup>3</sup>Department of Physiology and Biophysics, University of Louisville, Louisville; <sup>4</sup>Department of Biochemistry and Molecular Biology, University of Louisville, Louisville; <sup>5</sup>Baltimore VA Medical Center, Baltimore; <sup>6</sup>Department of Medicine, University of Maryland, Baltimore.

9:00 - 9:15	<b>Refreshment Break</b>	"Without phosphorus, there would be no thought"
CHAIR: Eric Delpire		wrongly attributed to Büchner

- 9:15 9:45 Digesting the PTH-responsive phosphoproteome: Implications for renal phosphate reabsorption Rebecca Murray<sup>1</sup>, Michael L. Merchant<sup>2</sup>, Syed J. Khundmiri<sup>1,2</sup>, Barbara J. Clark<sup>3</sup>, and Eleanor D. Lederer<sup>1,2,4</sup> Departments of <sup>1</sup>Physiology & Biophysics, <sup>2</sup>Medicine, <sup>3</sup>Biochemistry & Molecular Biology, University of Louisville, Louisville, KY, <sup>4</sup>Robley Rex VAMC, Louisville.
- 9:45 10:15 Inversin modulates transepithelial ion transport in mouse renal cells. <u>Nalini K</u>ulkarni, Rosamund Smith, and Bonnie Blazer-Yost Department of Biology, Indiana University-Purdue University Indianapolis, Eli Lilly and Company, Indianapolis.

Tuesday June 23 – Morning<br/>CHAIR: Kenneth Gagnon"Remember me and smile, for it's better to forget than to remember me and<br/>cry."Dr. Seuss

- 8:30 9:00 **Ubiquitin proteasome inhibition rescues expression and function of pendrin mutants** <u>Emanuele B</u>ernardinelli, Vanessa de Moraes, Silvia Dossena, Markus Paulmichl, Institute of Pharmacology & Toxicology, Paracelsus Medical University, Salzburg Austria
- 9:00 9:30 Role of O-Glucosylation in regulatory volume decrease <u>Davide Antonio Civello</u><sup>1</sup>, Roberta Costa<sup>1</sup>, Tamas Nagy<sup>2</sup>, Attila Miseta<sup>2</sup>, Silvia Dossena<sup>1</sup>, Markus Paulmichl<sup>1</sup>.
   <sup>1</sup>Institute of Pharmacology and Toxicology, Paracelsus Medical University, Salzburg Austria.<sup>2</sup>Department of Laboratory Medicine, Faculty of Medicine, University of Pécs, Pecs, Hungary.

9:30 – 10:00 **Drug Transporter Profile in Kidney Proximal Tubules** <u>Giada Scantamburlo</u><sup>1</sup> Charity Nofziger<sup>1</sup>, Michaela Zopf<sup>1</sup>, Silke Simon<sup>2</sup>, Christoph Funk<sup>2</sup> and Markus Paulmichl<sup>1</sup> <sup>1</sup>Institute of Pharmacology & Toxicology, Paracelsus Medical University, Salzburg Austria <sup>2</sup>Biotransformation and Drug Distribution, Roche Pharmaceutical Research and Early Development, F. Hoffmann-La Roche Ltd., Basel Switzerland

10:00 -10:30Refreshment Break"No disease that can be treated by diet should be treated by any other<br/>means"CHAIR: Rebbeca Murraymeans"Maimonides

- 10:30 11:00 The Na/K Pump ATPase Bcl-2 Protein Connection.
   Peter K Lauf and Norma C. Adragna.
   Cell Biophysics Group, Wright State University Boonshoft School of Medicine.
- 11:00 11:30 Studies on Tuberous Sclerosis Complex Cellular Models
   Norma. C. Adragna<sup>1</sup> Jasser Alzhrani<sup>1</sup>, Kristopher Kahle<sup>3</sup> and Peter Lauf<sup>1,2</sup>
   <sup>1</sup>Department of Pharmacology and Toxicology, <sup>2</sup>Department of Pathology, Boonshoft School of Medicine, Wright State University, Dayton; <sup>3</sup>Manton Center for Orphan Disease Research, Children's Hospital Boston, Boston, MA.

#### Tuesday afternoon - free

<b>Tuesday June 23 – Evening</b> CHAIR: Darryl Peterson"Don't cry because it's over, smile because it happened."Dr. Seuss			
7:30 - 8:00	<b>Dysregulation of</b> <i>SLC9A3</i> <b>and acid-base transport in Pediatric Eosinophilic Esophagitis</b> <u>Simone Vanoni</u> <sup>1</sup> Chang Zeng <sup>1,2</sup> , David Wu <sup>1</sup> , Taeko Noah <sup>1</sup> , Lisa Waggoner <sup>1</sup> , Artem Barski <sup>1</sup> , Andrey Kartashov <sup>1</sup> , Mark Rochman <sup>1</sup> , Joseph Sherrill <sup>1</sup> , Marc E. Rothenberg <sup>1</sup> , Simon P. Hogan <sup>1</sup> <sup>1</sup> Division of allergy and immunology, department of pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH. <sup>2</sup> Department of pharmacology and cell biophysics, University of Cincinnati, College of medicine, Cincinnati, OH.		
8:00 - 8:30	<b>Functional homologies between Transducin and other XTPase proteins</b> James W. Clack Division of Science, Indiana University – Purdue University		
8:30 - 9:00	Microbiota and Host Cell Signaling Roger T. Worrell Department of Physiology, University of Cincinnati, Cincinnati, OH.		
9:00 - 9:15	Concluding Remarks – turning over the leaf for another 50 years Manoocher Soleimani, Chair - 2016 Meeting		
9:15 – 9:30	Business Meeting		
	Reports Meeting Dates for 2018 Election of Vice-Chair for 2016		
9:30 -	Refreshments & Mingling Time		

Wednesday June 24 – Enjoy the Park and Lake – Safe Travels Home.