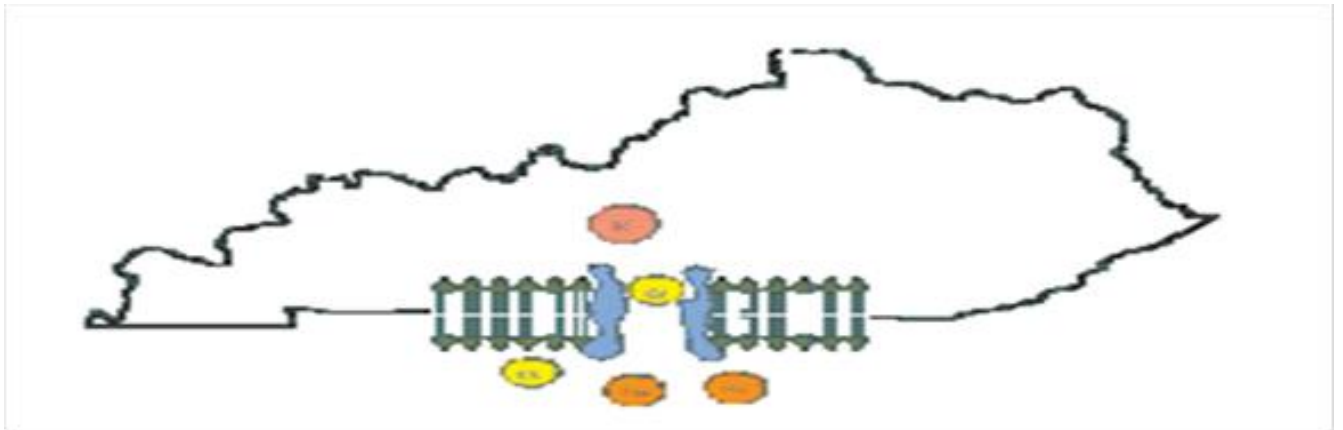


51st Annual Lake
Cumberland Biological
Transport Group
Meeting
Pumpkin Lodge
June 19-21, 2016



**Lake Cumberland Biological Transport Group
June 19-21, 2016
Pumpkin Lodge**

Sunday, June 19—Evening

CHAIR: Manoocher Soleimani

- 6:00-7:30pm** **Pumpkin Lodge Potluck (Bring your favorite dish!)**
- 7:30-8:00pm** **Coffee Refreshment**
- 8:00-8:15pm** **Opening Remarks** Manoocher Soleimani
Simone Vanoni
- 8:15-8:45pm** **A Systems Look at Mechanisms of Ammonium Transport.**
Roger T. Worrell
Department of Molecular and Cell Physiology, University of Cincinnati Medical
Center, Cincinnati, OH.
- 8:45-9:15pm** **KCC3 Activity Contributes to the Elongated Spindle-shaped Morphology of
Invasive Gliomas.**
Kenneth Gagnon
Department of Medicine, University of Louisville, Louisville, KY.

Monday, June 20th—Morning

CHAIR: Eric Delpire

- 8:30-9:00am** **Continental Breakfast**
- 9:00-9:30am** **TRPV4 Mediated Ion Transport in the Porcine Choroid Plexus;
Transporters.**
Shehab Ahmed, Ayodamola Otun, Yoon Shim, Bonnie Blazer-Yost
Biology Department, Indiana University-Purdue University, Indianapolis, IN.
- 9:30-10:00am** **TRPV4 Mediated Ion Transport in Porcine Choroid Plexus; Intercellular
Pathways.**
Bonnie Blazer-Yost, Daniel Preston, Caleb Danko, Shehab Ahmed
Biology Department, Indiana University-Purdue University, Indianapolis, IN.
- 10:00-10:30am** **Refreshment Break**
- CHAIR: Bonnie Blazer-Yost**
- 10:30-11:00am** **Anoctamin1 (ANO1) Regulates Basal Layer Proliferation in Pediatric
Eosinophilic Esophagitis.**

Simone Vanoni¹, David Wu¹, Davisha Arora², Taeko Noah¹, Lisa Waggoner¹, Artem Barski¹, Andrey Kartashov¹, Mark Rochman¹, Ting Wen¹, Margaret Collins³, Vincent Mukkada⁴, Phillip Putnam⁴, Anjaparavanda Naren², Marc E. Rothenberg¹, and Simon P. Hogan¹.

¹Division of Allergy and Immunology, ²Division of Pulmonary Medicine, ³Division of Gastroenterology, Nutrition and Hepatology, and ⁴Division of Pathology; Cincinnati Children's Hospital Medical Center, Cincinnati, OH.

11:00-11:30am

SLC9A3 (NHE3) Expression and Function in Pediatric EoE.

Chang Zeng, David Wu, Simone Vanoni, Taeko Noah, Lisa Waggoner, Artem Barski, Andrey Kartashov, Mark Rochman, Joseph Sherrill, Marc E. Rothenberg, Simon P. Hogan.

Division of Allergy and Immunology, Department of Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH.

Monday afternoon free!!!!

5:45pm

Dinner at Pumpkin Lodge

Monday, June 20th—Evening

CHAIR: Roger T. Worrell

7:30-8:00pm

Coffee Refreshment

8:00-8:30pm

Survival and Growth of Mice Lacking the BK Channel, *Kcnma1*.

Dan Halm and Susan Halm.

Wright State University, Dayton, OH.

8:30-9:00pm

The Antihypertensive Action of Thiazides Shifts From Salt Excretion to Vasorelaxation during Salt Restriction/Volume Depletion.

Manoocher Soleimani³, Saeed Alshahrani¹, Kamyar Zahedi³, Sharon Barone³, John N. Lorenz², and Jack Rubenstein².

¹Department of Pharmacology and Cell Biophysics, ²Department of Cellular and Molecular Physiology, Department of Internal Medicine, ³University of Cincinnati Medical Center, Cincinnati, OH.

Tuesday, June 21st—Morning

CHAIR: Simone Vanoni

8:30-9:00am

Continental Breakfast

9:00-9:30am

A patient with multiple-organ failure carries a Truncation mutation in human SLC12A2, the Gene Encoding the Na-K-2Cl Cotransporter, NKCC1.

Eric Delpire¹, Lynne Wolfe², Bianca Flores¹, Rainelli Koumangoye¹, Cara C. Schornak¹, Salma Omer¹, Barbara Pusey², Christopher Lau², Thomas Markello², and David R. Adams². ¹Department of Anesthesiology, Vanderbilt University School of Medicine, Nashville, TN 37232. ²Undiagnosed Diseases Program, National Institutes of Health, Bethesda, MD 20892.

9:30-10:00am

A de novo gain-of-function mutation in the KCC3 cotransporter uncovers a novel disease mechanism of human axonal neuropathy.

Bianca Flores⁷, Kristopher T. Kahle^{1,8}, Diana Bharucha-Goebel^{2,3}, Jinwei Zhang^{1,4}, Sandra Donkervoort², Madhuri Hegde⁶, Bo Liang⁵, Carsten G. Bönnemann², and Eric Delpire⁷.

¹Department of Neurosurgery, Boston Children Hospital, Harvard Medical School, Boston, MA 02114, USA. ²Neuromuscular and Neurogenetic Disorders of Childhood Section, Neurogenetics Branch, National Institute of Neurological Disorders and Stroke, Bethesda, MD 20814, USA. ³Department of Neurology, Children's National Health System, Washington, DC 20010, USA. ⁴MRC Protein Phosphorylation and Ubiquitylation Unit, College of Life Sciences, University of Dundee, Dundee, DD1 5EH Scotland. ⁵Departments of Microbiology and Immunobiology, Harvard Medical School, Boston, MA 02114, USA.

⁶Department of Human Genetics, Emory University, Atlanta, GA 30322, USA.

⁷Department of Anesthesiology, Vanderbilt University School of Medicine, Nashville, TN 37232, USA. ⁸Current Affiliation: Department of Neurosurgery and Pediatrics, Yale School of Medicine, New Haven, CT 06510, USA.

10:00-10:15am

Concluding Remarks

Manoocher Soleimani

10:15-10:30am

Business Meeting

- Reports
- Meeting Dates for 2017
- Election of Chairs for 2017