51st Annual Lake Cumberland Biological Transport Group Meeting
Pumpkin Lodge
June 19-21, 2016
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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 Mukkada¹, 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.
A de novo gain-of-function mutation in the KCC3 cotransporter uncovers a novel disease mechanism of human axonal neuropathy.

Bianca Flores, Kristopher T. Kahle, Diana Bharucha-Goebel, Jinwei Zhang, Sandra Donkervoort, Madhuri Hegde, Bo Liang, Carsten G. Bönnemann, and Eric Delpire.

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10:00-10:15am Concluding Remarks
Manocher Soleimani

10:15-10:30am Business Meeting

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